SPECIFICATION

OF

MITSUBISHI DIESEL ENGINE

MODEL : S16R-PTA2-C

FOR DIESEL GENERATOR SET

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								APPROVED BY	DRAWN BY
				DATE		2012.12.17		T. Tsukamoto	K. Kato

1. GENERAL

Object and use	:	Diesel generator
Color of painting	:	Mansel No. 7.5BG6/1.5
Applicable conditions		
Ambient temperature	:	5℃ ~ 40℃
Altitude	:	1500m above sea level
Max ,humidity	:	85%
Place of installation	:	In door

Shop test

Diesel engine running tests shall be carried out by the following items.

Starting test		
Load test	:	1/4, 2/4, 3/4 Load each
	:	4/4 Load
Governor test	:	Governor test should be done along with respective governor controller
Safety stop device test		

Guarantee

The guarantee shall be valided for the period of either 1year or 1000Hr (at Hr counter) after installation, whichever the shorter.

The guarantee shall cover against manufacturer defect, materials and workmanship only, and shall not be applicable to damage sustained through mishandling of the equipment.

Standard

All items, unless otherwise specified, are in accordance with JIS and manufacturer's standards.

2. PRINCIPAL PARTICULARS

Model	:	MITSUBISHI S16R-PTA2-C
Type	:	4cycle stroke, water cooled diesel engine
Combustion chamber	:	Direct injection type
Aspiration	:	Tarbocharged with after cooler
Number of cylinders	:	16-V
Bore × stroke	:	170mm × 180mm
Total displacement	:	65.37liter
Compression ratio	:	13.5 : 1
firing order	:	1 - 9 - 6 - 14 - 2 - 10 - 4 - 12 - 8 - 16 - 3 - 11 - 7 - 15 - 5 - 13
Direction of rotation	:	Counter clockwise as viewed from flywheel side
Engine dimensions (Approx.)	:	Length Apx. 3121mm
	:	width Apx. 1401mm
	:	Height Apx. 1810mm
Dry weight (Approx.)	:	6850kg (without accessories)
Fuel oil	:	ASTM D975 No. 2 - D or BS 2869 class A
Lubricating oil	:	API service CF class SAE No. 15W-40

Output at ISO 3046 standard air conditions (25°C, 100kPa, 30% Humid)

Stand-by rating	:	1760kW/1500min^{-1}
Fuel consumption ratio at Stand-by rating (allowance +5%)	:	197g/kW-hr
Lub, oil consumption ratio at Stand-by rating	:	within 0.8g/kW-hr

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3. STANDARD EQUIPMENTS

(1) power line system

Flywheel	:	DWG.NO.37896-21001 SAE J620d 21in, except screw size
Flywheel housing	:	DWG.NO.37896-21001 SAE J617c No.00, except screw size
Engine mounting	:	DWG.NO.37896-14001 6 points mounting, C = 250mm
Torsional vibration damper	:	Viscous type × 2pcs

(2) Air intake system

Air cleaner	:	DWG.NO.37896-30308 loose supply DWG.NO.S35-1032 Donaldson EGB20 × 4 pcs Paper element type without inlet cap
Turbocharger	:	MITSUBISHI TD Type Model : TD13M-37Q22VRC(26)
Air cooler	:	Jacket water cooled type Plated element type
Air heater	:	Not supply

(3) Exhaust system

Exhaust manifold	:	Air cooled type with heat insulator
Muffler	:	Not supply
Flexible pipe	:	DWG.NO.S37-1090 (47920-12400) loose supply JIS 350A, L=335mm, weight 31.6kg
Companion flange	:	Not supply
Breather	:	DWG.NO.37896-43014 Up side direction type For blow - off to outside of engine room

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(4) Lubricating system

Oil pump	:	Gear pump type
Capacity of oil pump	:	1500min^{-1} : 480 L/min.
Lub. oil pressure	:	0.5~0.65 Mpa
Quantity of oil (Approx.)	:	Oil pan full level : 200 liter
		low level : 140 liter
		Others (filter etc.) : 30 liter
		Total : 230 liter
Lub. oil filter (Full flow)	:	DWG.NO.37896-40001
		Paper element cartrige type × 4pcs
		filter mesh : 20 μ
		with by - pass alarm switch
Lub. oil filter (By - pass flow)	:	DWG.NO.37896-40001
		Paper element cartrige type × 1pc
		filter mesh : 2 μ
Lub. oil cooler	:	Water cooled corrugated type with by - pass valve

(5) Cooling system

Water pump	:	Gear drive centrifugal type
Capacity of water pump	:	1500min^{-1} : 1650 L/min.
Thermostat	:	Wax pellet type
		Open at 71℃ ~ 85℃
Fan	:	Pusher type steel fan 1828 diameter, Gear drive
		Fan speed ratio i = 0.475
Jacket water heater		
Water heater piping	:	DWG.NO.37896-46309
		Install on common bed
Water heater	:	DWG.NO.S12-0014
		2.0kW, 3 phase, 220 ~ 480V
		1 phase, 110 ~ 480V
Operation	:	Convection type
		Controlled by thermo switch
Thermo switch	:	DWG.NO.S11-0781
		42℃ - off, 35℃ - on
		Contactor capacity
		DC24V : 3A
		AC100V : 1A, DC100V : 0.05A

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(6) Fuel system

Fuel inlet pipings	:	DWG.NO.37896-62112 loose supply
		flexible hose (Rc 3/4 joint)
Fuel return pipings	:	DWG.NO.37896-61312 loose supply
		flexible hose (Rc 3/4 joint)

Fuel overflow of Inj. Pump and fuel leak - off of Nozzle have to return to fuel tank

Injection pump	:	Bosch type "PS8A" without timer
Feed pump	:	Piston type with priming pump
Injection Nozzle	:	Hole type 0.31mm × 10 holes
Fuel filter	:	DWG, No.37896-62002
	:	Paper element cartrige type filter mesh : 5 μ

(7) Control system

Governor	:	DWG.NO.37896-63005
		Electronic speed governor
		Speed droop : 0 ~ 5% adjustable
Actuator	:	DWG.NO.S13-1761
		Supply voltage : DC24V± 20%
		Current consumption
		At starting : 13A
		Normal operation : 0.5 ~ 2A
		Min. Supply voltage : DC16V50%ED
Controller	:	DWG.NO.S13-1042 loose supply
		Model : XS-400B-03 (04410-33100)
		Supply voltage : DC24V± 20%
Potentiometer	:	For low idling speed setting
		Not supply
Potentiometer	:	For rated speed setting
		Not supply
Connector	:	DWG.NO.S13-1022 loose supply
		From actuator to controller
		5000mm length
Magnetic pick up	:	DWG.NO.S13-2011
		With connector
Cable	:	DWG.NO.S13-2020 loose supply
		From magnetic pick up to controller
		4300mm length

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(8) Starting system

Starter switch	:	with key, with heat position Not supply
Starting motor	:	DWG.NO.37896-66001 DC24V, 7.5KW × 2pcs Reduction type with safety relay with 2 poles connector (DWG.NO.S14-0320)
Safety relay	:	DWG.NO.S10-0150 loose supply For Parallel running of starting motor
Current of starter	:	Rush 1250A Cranking 400A (Ambient temp : 5℃, Lub. oil : SAE No. 30)
Fuel limit solenoid	:	DWG.NO.37896-87503 DWG.NO.S13-0282 Fuel limit at engine starting Energized to fuel control until rated speed
Alternator	:	DWG.NO.S10-0540 DC24V, 30A, with voltage regulator with 2 poles connector (DWG.NO.S10-0550)
Recommended battery capacity	:	DC24V, 400AH Not supply
Battery switch	:	Not supply

(9) Stopping system	:	DWG.NO.37896-87503
Automatic stop		Automatically shut - down by stop solenoid and electronic governor power off simultaneously
Stop solenoid	:	DWG.NO.S13-0282 Energized to run type DC24V, 30.7A(pull), 0.58A(hold)
Manual stop	:	By stop lever

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(10) Safety device

Alarm swtitches	:	DWG.NO.37896-90207
Alarm and trip		
Low oil press. switch	:	DWG.NO.S11-0796 (04442-45400)
		Diaphragm type : 0.15 MPa switch on
High water temp. switch	:	DWG.NO.S11-0551 (04442-34500)
		Wax type : 98℃ switch on
Alarm		
Oil filter alarm switch	:	DWG.NO.S11-1370
		Piston type : 0.15 MPa switch on
Oil filter alarm lamp	:	Not supply
Air filter alarm indicator	:	DWG.NO.S11-0920 loose supply
		Mechanical type : 635mmH_2O switch on

(11) Instrument

Meter and sensor	:	DWG.NO.37896-90119
Tachometer	:	Pulse type for engine speed
		With electrical hour meter
		Not supply
Magnetic pick up	:	DWG.NO.S13-2011
		For tachometer, pin-joint type
Cable	:	For magnetic pick up, 4300mm length
		Not supply
Thermometer	:	Electrical type for jacket water and lub. oil temp.
		Not supply
Pressure gage	:	Electrical type for lub. oil press.
		Not supply
		With 2 poles connector (DWG.NO.S14-0330)
Thermometer	:	For exhaust gas temp.
		Not supply

(12) Others

Turning device	:	DWG.NO.37896-71001
		Gear type, for maintenance
Service meter	:	Not supply
Tools	:	Not supply
Spare parts	:	Not supply

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4. ACCESSORIES (Loose supply parts)

NO.	PARTS NO.	PARTS NAME	Q' TY	DWG. NO.
1	47220-47703	AIR CLEANER ASSY.	4	S35-1032
2	47220-47600	HOSE, ELBOW	4	S35-0701
3	47521-74100	PIPE, AIR (L.H.)	1	
4	47521-74200	PIPE, AIR (R.H.)	1	
5	47521-74300	PIPE, AIR (L.H.)	1	
6	47521-74400	PIPE, AIR (R.H.)	1	37896-30308
7	47220-47300	HOSE, RUBBER	4	S35-0711
8	47521-73800	STAY, PIPE (L.H.)	1	
9	47521-73900	STAY, PIPE (R.H.)	1	
10	05317-52001	CLAMP	8	
11	05317-52801	CLAMP	8	
12	47920-12400	FLEXIBLE PIPE	1	S37-1090
13	45955-22180	HOSE	1	
14	05317-51001	CLAMP	4	
15	04820-08050	PIPE, BREATHER	1	37896-43014
16	47510-55601	STAY, PIPE	1	
17	45717-62601	U-BOLT	1	
18	04393-32220	HEATER, WATER	2	S12-0014
19	47521-62901	CASE, HEATER	2	
20	45961-13052	PIPE, FLEXBLE	1	
21	45961-13034	PIPE, FLEXBLE	2	
22	30007-65200	PIPE, VINYL	2	
23	33407-16100	COCK, DRAIN	2	
24	00434-15011	CONNECTOR	1	
25	05946-02001	WASHER, SEALING	2	37896-46309
26	F4300-01600	CLAMP	2	
27	F4656-15000	ELBOW	5	
28	F5006-21000	PLUG, TAPER	2	
29	45961-13058	PIPE, FLEXBLE	1	
30	47521-63100	STAY	1	
31	F2882-25000	CLIP	1	

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NO.	PARTS NO.	PARTS NAME	Q' TY	DWG. NO.	
32	45950-51700	PIPE,FLEXIBLE	1	37896-61312	
33	45950-11300	CONNECTOR	1		
34	45950-51700	PIPE,FLEXIBLE	1	37896-62113	
35	45950-11300	CONNECTOR	1		
36	04410-33100	CONTROLLER	1	S13-1042	37896-63005
37	04410-32902	CONNECTOR, ACTUATOR	1	S13-1022	
38	04410-43500	CABLE, PICK UP	1	S13-2020	
39	04322-40100	RELAY, SAFETY	1	S10-0150	
40	F8665-02100	CONNECTOR	2	S14-0320	for starter
41	32B90-00300	CONNECTOR	1	S10-0550	for alternator
42	MH052231	CONNECTOR	1	S14-0330	37896-90119
43	47220-34401	INDICATOR	4	S11-0920	37896-90207

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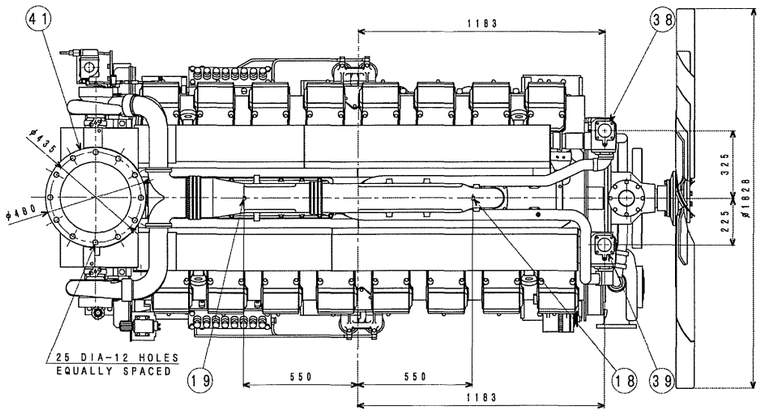
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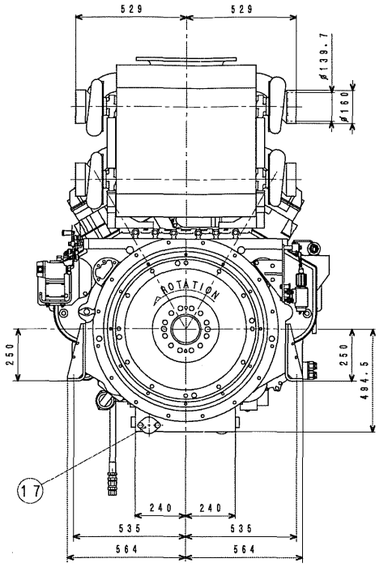
NO.	DWG. NO.	DWG. NAME	REV.
1	37896-00213	ENGINE OUTLINE	
2	37896-01001	JOINT DETAIL	
3	37896-04029	WIRING DIAGRAM	
4	37896-14001	MOUNTING DETAIL	
5	37896-21001	FLYWHEEL & HOUSING DETAIL	
6	37896-30308	AIR CLEANER	
7	37896-40001	OIL FILTER	
8	37896-43014	BREATHER	
9	37896-46309	WATER HEATER PIPING	
10	37896-61312	FUEL RETURN PIPING	
11	37896-62002	FUEL FILTER	
12	37896-62112	FUEL INLET PIPING	
13	37896-63005	GOVERNOR	
14	37896-66001	STARTING MOTOR	
15	37896-71001	TURNING GEAR	
16	37896-87503	STOP & FUEL LIMIT SOLENOID	
17	37896-90119	METER & SENSOR	
18	37896-90207	ALARM SWITCH	
19	S10-0150	SAFETY RELAY	
20	S10-0540	ALTERNATOR	
21	S10-0550	CONNECTOR	
22	S11-0551	THERMO SWITCH	
23	S11-0781	THERMO SWITCH	
24	S11-0796	PRESSURE SWITCH	
25	S11-0920	INDICATOR	
26	S11-1370	FILTER ALARM SWITCH	
27	S12-0014	WATER HEATER	
28	S13-0282	SOLENOID	
29	S13-1022	CONNECTOR	
30	S13-1042	CONTROLLER	

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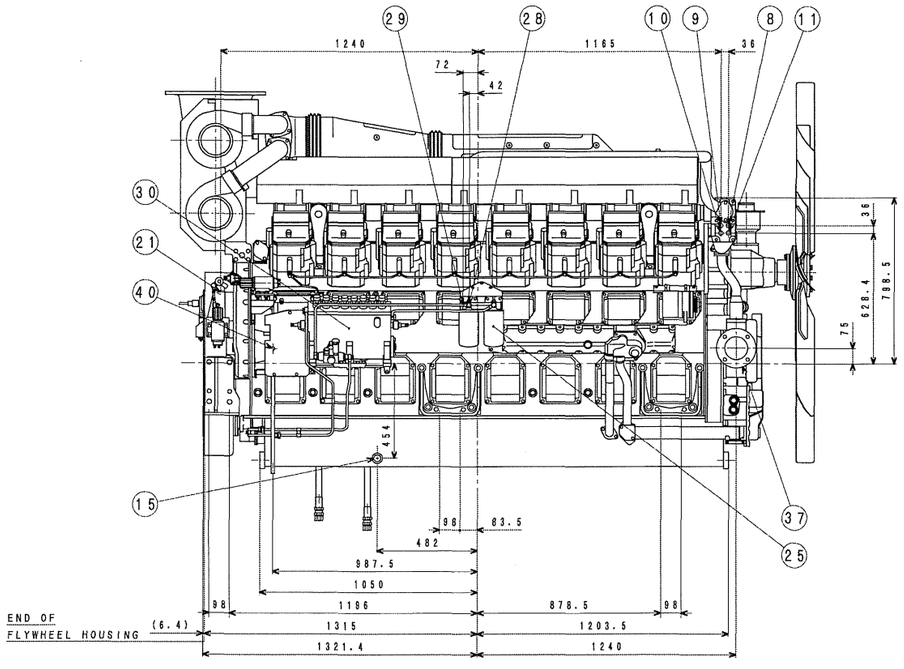
NO.	DWG. NO.	DWG. NAME	REV.
31	S13-1761	ACTUATOR	
32	S13-2011	MAGNETIC PICK UP	
33	S13-2020	CABLE, PICK UP	
34	S14-0320	CONNECTOR	
35	S14-0330	CONNECTOR	
36	S35-0701	HOSE, ELBOW	
37	S35-0711	HOSE, RUBBER	
38	S35-1032	AIR CLEANER ASSY.	
39	S37-1090	FLEXIBLE PIPE	

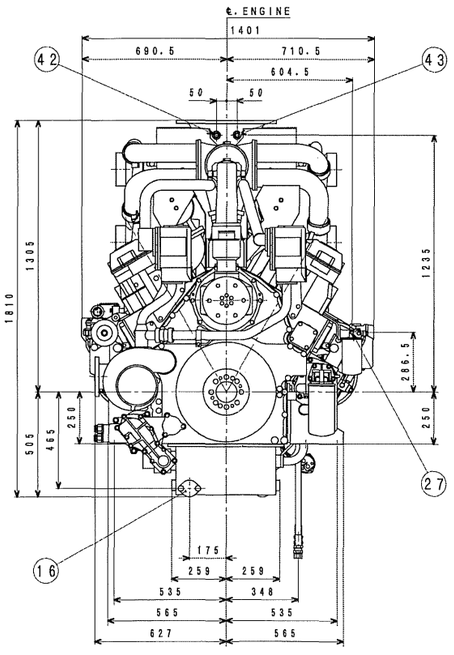
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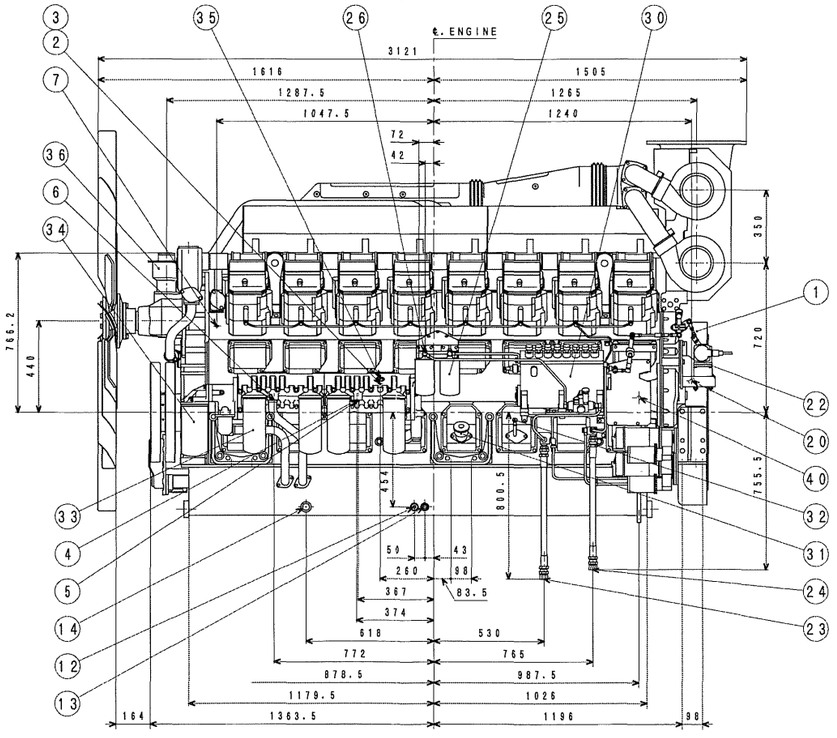




NO.	PARTS NANE	SIZE	REFERENCE
1	FLYWHEEL & HOUSING		37896-21081
2	OIL PRESS. GAGE UNIT JOINT	Rc1/8	37896-21081
3	OIL PRESS. SWITCH JOINT	Rc1/8	↑
4	OIL PRESS. SWITCH JOINT	Rc 1	
5	OIL PRESS. SWITCH JOINT	Rc1/2	
6	OIL PRESS. SWITCH JOINT	Rc1/2	
7	OIL PRESS. SWITCH JOINT	Rc3/8	
8	THERMOMETER UNIT JOINT	Rc1/2	
9	THERMOSWITCH JOINT	Rc1/2	
10	THERMOSWITCH JOINT	Rc1/2	
11	THERMOSWITCH JOINT	Rc1/2	
12	OIL PAN (A) JOINT	M16x1.5	
13	OIL PAN (B) JOINT	M20x1.5	
14	OIL PAN (C) JOINT	M36x1.5	
15	OIL PAN (C) JOINT	M36x1.5	
16	OIL PAN (D) JOINT		
17	OIL PAN (D) JOINT		
18	AIR PRESS. GAGE JOINT	Rc1/8	
19	AIR PRESS. GAGE JOINT	Rc1/8	
20	PICKUP JOINT	5/8-18UNF	
21	PICKUP JOINT	5/8-18UNF	↓
22	GOVERNOR		
23	FUEL INLET PIPE JOINT		↓
24	FUEL RETURN PIPE JOINT		37896-21001
25	FUEL FILTER		
26	FUEL PRESS.SWITCH JOINT	M14x1.5	37896-21001
27	FUEL PRESS.SWITCH JOINT	Rc3/8	↑
28	FUEL PRESS.SWITCH JOINT	M14x1.5	↓
29	FUEL PRESS.SWITCH JOINT	Rc3/8	37896-21001
30	FUEL INJECTION PUMP		
31	OIL FILLER		
32	OIL LEVEL GAGE		
33	OIL FULL-FLOW FILTER		
34	OIL BY-PASS FILTER		
35	OIL BY-PASS ALARM SWITCH		37896-21001
36	BREATHER		↑
37	WATER INLET PIPE JOINT	90A	
38	WATER OUTLET PIPE JOINT		↓
39	WATER OUTLET PIPE JOINT		37896-21001
40	WATER DRAIN COCK		
41	EXHAUST FLANGE	350A	
42	THERMOMETER, EX. JOINT	Rp3/4	37896-21001
43	THERMOMETER, EX. JOINT	Rp3/4	37896-21001
44	STOP SOLENOID		
45	RACK LIMIT SOLENOID		







注記
(4)本図は、マウンチングC=250仕様である。
(3)本図のガバナは、電子ガバナ仕様である。
(2)三菱TD13M-37Q22VRC26/1500rpm、TD13L-40Q235VRC27.5/1800rpmターボ装備。
(1)本図は、S16R-PTA2/ファン付の標準外観図である。

NO	DATE	CHK
2	4590-D062 '97.4.12	牧下
1	4590-5037 '99.3.15	福田

3rd ANGLE PROJECTION
尺度 SCALE :

APPD	CHK	CHK	DRN
清国	仁尾	福田	谷口 戸重

製図 DRN 1998.10.23

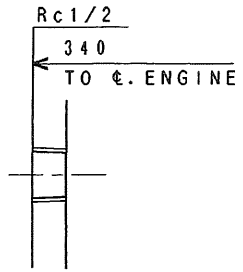
S16R-PTA2 (CM-BR)
DIESEL ENGINE
三菱重工業株式会社相模原製作所
SAGAMIHARA MACHINERY WORKS, MITSUBISHI HEAVY INDUSTRIES, LTD.
図面番号 DRAWING NO. 37896-00213

旧引 汎特 2007 4.13

FULL-CAD

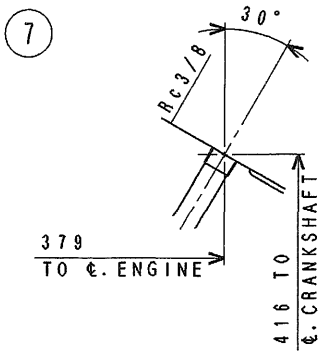
引図 ① 社内用 ② 社外用 TYPE A B
他公図 1 熱処理部品 2 標準部品 3 組立品 4 その他(無人化)

(8)(9)(10)(11)



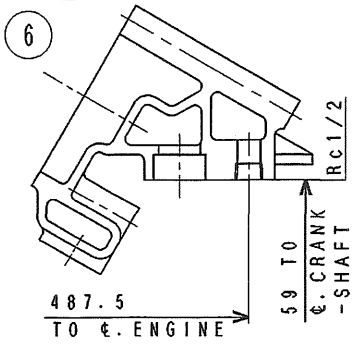
THERMOSWITCH JOINT
THERMOMETER UNIT JOINT

(7)



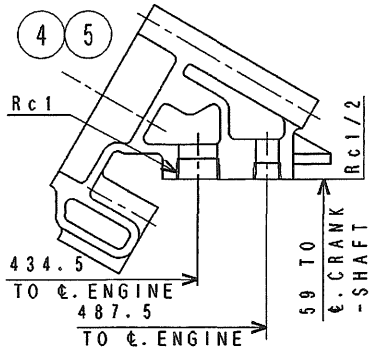
OIL PRESS. SWITCH JOINT

(6)



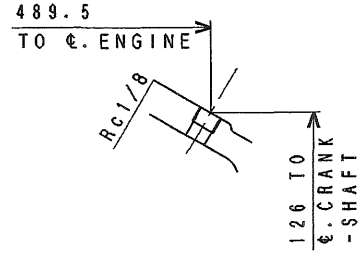
OIL PRESS. SWITCH JOINT

(4)(5)



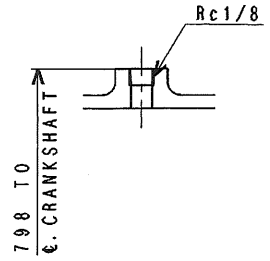
OIL PRESS. SWITCH JOINT

(2)(3)



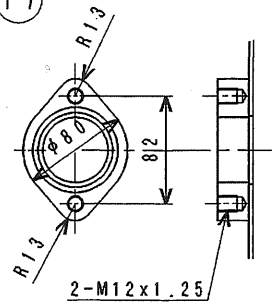
OIL PRESS. SWITCH JOINT
OIL PRESS. GAGE UNIT JOINT

(18)(19)



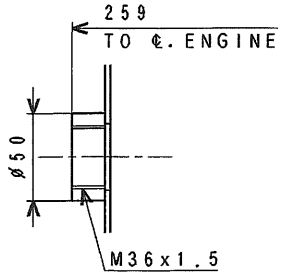
AIR PRESS. GAGE JOINT

(16)(17)



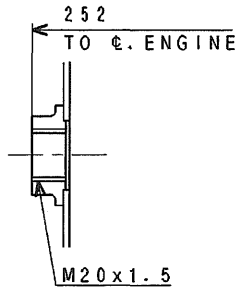
OIL PAN (D) JOINT

(14)(15)



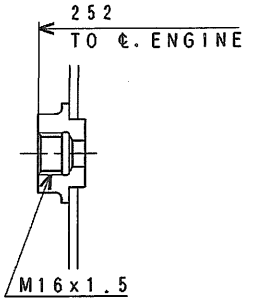
OIL PAN (C) JOINT

(13)



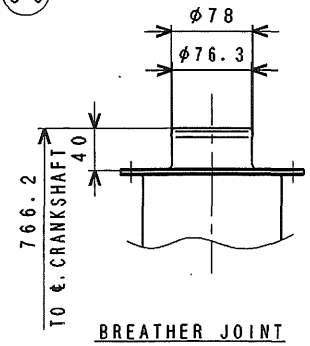
OIL PAN (B) JOINT

(12)



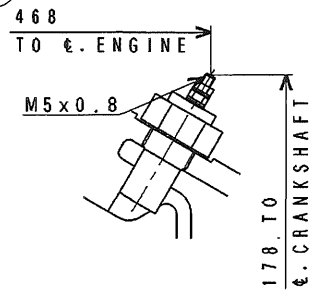
THERMOMETER UNIT JOINT
(OIL PAN (A) JOINT)

(36)



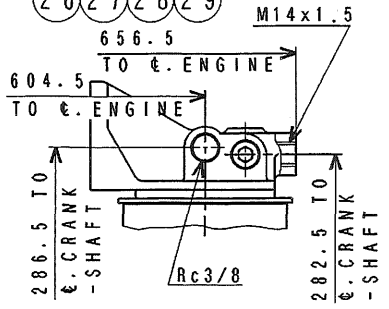
BREATHER JOINT

(35)



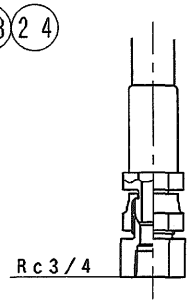
OIL BY-PASS ALARM SWITCH

(26)(27)(28)(29)



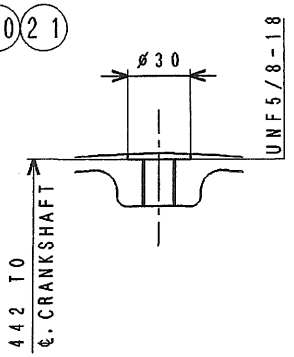
FUEL PRESS. SWITCH JOINT

(23)(24)



FUEL INLET PIPE JOINT
FUEL RETURN PIPE JOINT

(20)(21)



PICKUP JOINT

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
1	4590-4994	'99.3.8	仁尾

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
清	仁尾 福田	斉藤
		1998. 8. 20

S16R

JOINT DETAIL

三菱重工業株式会社相模原製作所
SAGAMIHARA MACHINERY WORKS. MITSUBISHI HEAVY INDUSTRIES, LTD.

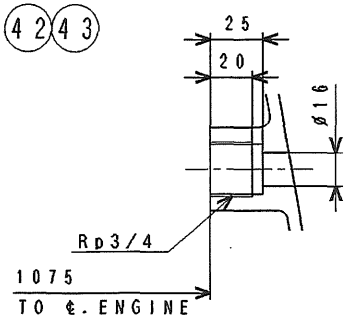
図面番号 DRAWING No. 37896-01001 1 1/2

3 新図 ④ 旧引図	サイズ A3	① 組立図	2 鋳鍛造品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

旧31 三菱 相製 1999 4.6

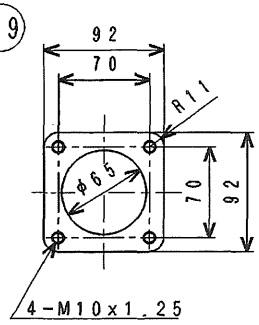
FULL-CAD

(42)(43)



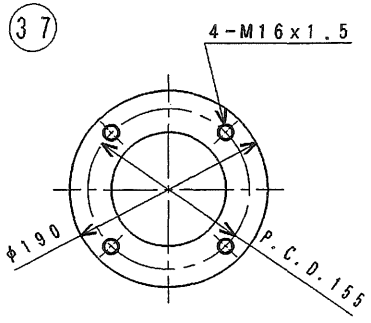
THERMOMETER, EX. JOINT

(38)(39)



WATER OUTLET PIPE JOINT

(37)



WATER INLET PIPE JOINT

1	4590-4994	'99.3.8	仁尾
CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD 清尾

検図 CHK 仁福尾田

製図 DRN 斉藤 1998. 8. 20

S16R

JOINT DETAIL

三菱重工業株式会社相模原製作所

SAGAMIHARA MACHINERY WORKS. MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 37896-01001 1

2/2

3 新図 ④ 旧引図 | サイズ A3 | ① 組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

旧引 相製 1999 4.6

FULL-CAD

MHI CONFIDENTIAL

※ INSTRUMENT PANEL

rpm ★ TACHOMETER 0~2500min⁻¹

★ CONNECTOR E (Y B R L) ★ HARNESS

MAGNETIC PICK UP 04410-43410

CONNECTOR F (P)

★ CABLE

1.25 1.25 1.25 1.25 1.25 1.25 2

E E

TB8-2

FILTER ALARM SWITCH 37540-01300

※FILTER ALARM LAMP

BODY EARTH

☆ SAFETY RELAY 04322-40100

S・R (SS SW M M)

TB5-2

★ PRESSURE GAGE OIL PRESS.

UNIT 04541-86200 (T E)

☆CONNECTOR A

★ THERMOMETER OIL TEMP.

UNIT 04525-02230

BODY EARTH

★ THRMOMETER WATER TEMP.

UNIT 04525-02230

BODY EARTH

E

★STARTER SWITCH (SS・SM B)

TB7-2

TB3-2

☆CONNECTOR C (S N) ☆CONNECTOR D (S N)

BC・S・R BS・TM C M

STARTER 37766-20201 DC24V 7.5kW×2

BODY EARTH BODY EARTH

100 100

★BATTERY SWITCH

100X2

100 100 100 100

EARTH TO ENGINE

※ BATTERY DC24V 400Ah (HS-200EX12X2 EQUIVALENT)

※TERMINAL BLOCK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

※ GENERATOR PANEL

☆CONNECTOR B (L R)

DYNAMO 04343-38000 DC24V 30A (E D・YB)

STOP RUN AUTO RETURN START

STARTER SWITCH

POWER SUPPLY FOR GENERATOR CONTROL PANEL DC□V (CONTROL VOLTAGE DC□V) (+) (-)

STOP SOLENOID 04400-08801 DC24V 30.7A-0.58A ENERGIZED TO RUN — 5S — TB9-5, 5, E

FUEL LIMIT SOLENOID 04400-08901 DC24V 30.7A-0.58A ENERGIZED TO FUEL CONTROL — 19S — TB10-5, 5, E

PRESSURE SWITCH 04400-45400 LOW OIL PRESS. ON:0.15MPa — 63Q — TB11-2, TB12-2

THERMOSWITCH 04442-34500 HIGH WATER TEMP. ON:98℃ — 49W — TB13-2, TB14-2

※ TACHO GENERATOR SPEED DETECTING ON GENERATOR — TG — TB15-2, TB16-2

❶THERMOSWITCH WH CONTROL ON:38℃ OFF:42℃ — 23W — TB26-2, TB27-2

❶ WATER HEATERX2 AC3φ□V 2kW — WH — TB28-2, TB29-2, TB30-2

❶ PRIMING PUMP AC3φ□V 1.5kW — IM — TB31-2, TB32-2, TB33-2, TB34-2

ACTUATOR 04410-32011 — AC

MAGNETIC PICKUP 04410-43410 — M・P

☆ CABLE 04410-32902

☆ CABLE 04410-43500

rpm(R)-2 S・S(B)-2 S・R(SS)-2 S・S(M)-2 D・Y(R)-2 5S-5 19S-5 63Q-2 63Q-2 49W-2 49W-2 TG-2 TG-2 23W-2 23W-2 WH(U)-2 WH(V)-2 WH(W)-2 WH(W)-2 WH(U)-2 WH(V)-2 WH(W)-2 IM(U)-2 IM(V)-2 IM(W)-2 IM(E)-2

KEY SWITCH CONDITION

KEY POSITION	CONNECTION B	M	S
STOP	○		
RUN	○	○	
START	○	○	○

CONNECTOR A (T) (E) MH052231 (2P)

CONNECTOR B (L) (R) 32B90-00300(2P)

CONNECTOR C (N) (S) F8665-02100(2P)

CONNECTOR D (N) (S) F8665-02100(2P)

CONNECTOR E (Y) (L) (R) (B) 7329-3043(4P)

CONNECTOR F (-) (P) MH052231(2P)

MHI CONFIDENTIAL

(7) THE MARK ★ IS SUPPLIED. (NOT SUPPLY)
(6) LENGTH OF CABLE BETWEEN BATT. AND BATT. SWITCH CONTROL POINT SHOULD BE LESS THAN 10M. IN CASE WHERE LENGTH OF PAID CABLE WOULD BE MORE THAN 10M, CABLE SIZE SHALL BE CONSIDERED.
(5) THE MARK ❶ SHOWS OPTION PARTS.
(4) MEANING OF THE WIRE SYMBOL. TB9-5 (DISTINATION / WIRE SIZE)
(3) CONNECTOR ARRANGEMENT IS SEEN FROM ARROW SIDE.
(2) THE MARK ☆ IS SUPPLIED WITHOUT ASSEMBLED ON ENGINE.
NOTE (1) THE WIRING AND THE MARK※IS NOT PREPARED BY MITSUBISHI.

M/C

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION 尺度 SCALE :

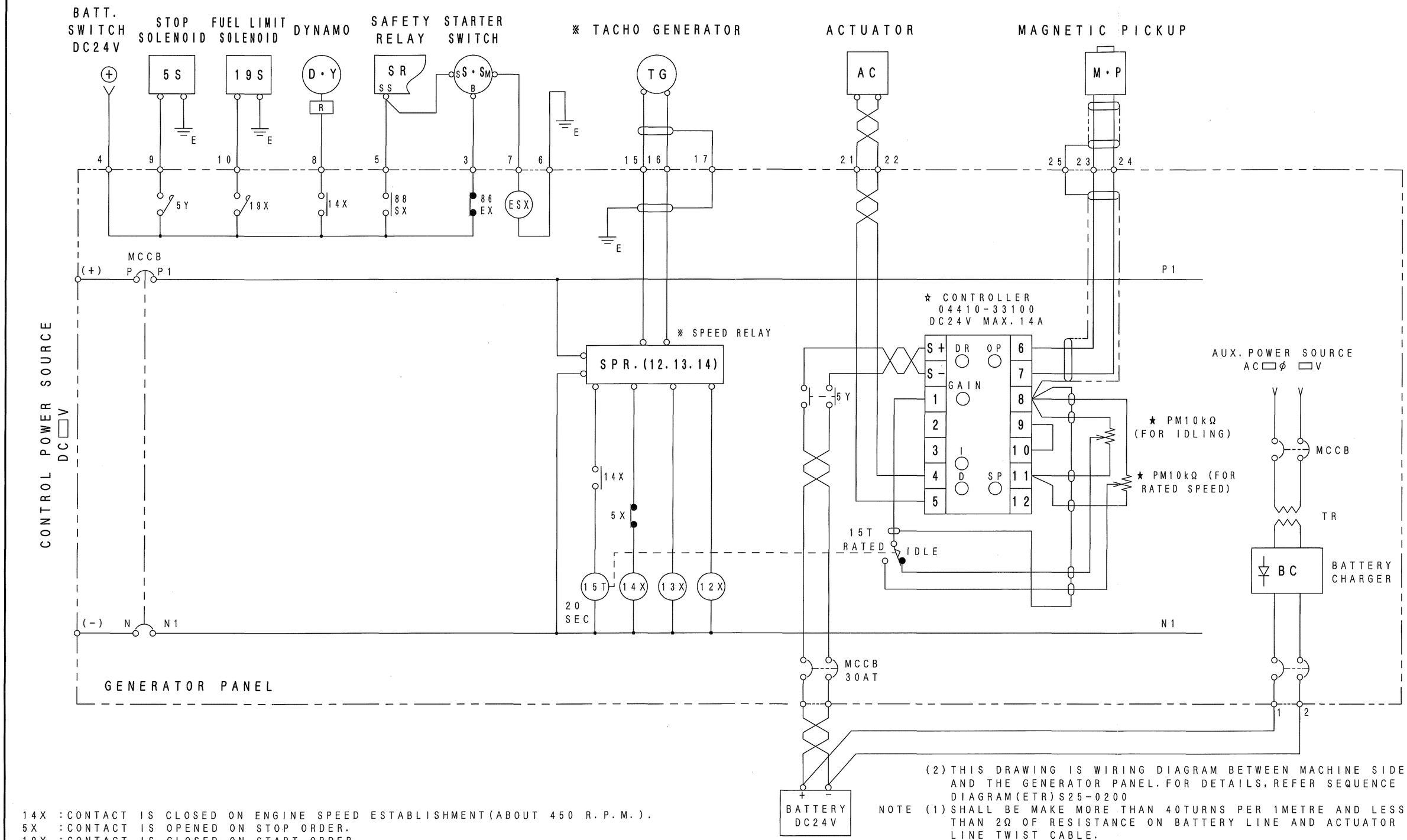
認可 APPD 檜垣 検図 CHK 塚中 本村 製図 DRN 谷戸 2012.11.28

S16R-2 FOR STAND-BY USE WIRING DIAGRAM(ETR)

三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 37896-04029 △ 1/2

③新図 4旧引図 | サイズ A2 | ①組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



14X :CONTACT IS CLOSED ON ENGINE SPEED ESTABLISHMENT(ABOUT 450 R.P.M.).
5X :CONTACT IS OPENED ON STOP ORDER.
19X :CONTACT IS CLOSED ON START ORDER.
:CONTACT IS OPENED ON VOLTAGE ESTABLISHMENT.
86EX:CONTACT IS OPENED ON EMERGENCY STOP ORDER(HEAVY TROUBLE).
88SX:START ORDER(ENG.CRANKING),CONTACT IS CLOSED ON CRANKING ORDER.
5Y :RUN SIGNAL FOR STOP SOLENOID & GOVERNOR CONTROLLER.
(ESX): TO ACTIVATE OPERATION SIGNAL'5Y'TO GOVERNOR CONTROLLER AND STOP SOLENOID,START-UP CONTACT POINT SIGNAL GIVEN FROM STARTER SWITCH ON MACHINE-SIDE PANEL IS NECESSARY TO THE CIRCUIT FOR START-UP ON GENERATOR PANEL.

(2) THIS DRAWING IS WIRING DIAGRAM BETWEEN MACHINE SIDE AND THE GENERATOR PANEL. FOR DETAILS, REFER SEQUENCE DIAGRAM(ETR)S25-0200
NOTE (1) SHALL BE MAKE MORE THAN 40TURNS PER 1METRE AND LESS THAN 2Ω OF RESISTANCE ON BATTERY LINE AND ACTUATOR LINE TWIST CABLE.

M/C

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
掛12.	塚本 中村	谷戸
		2012.11.28

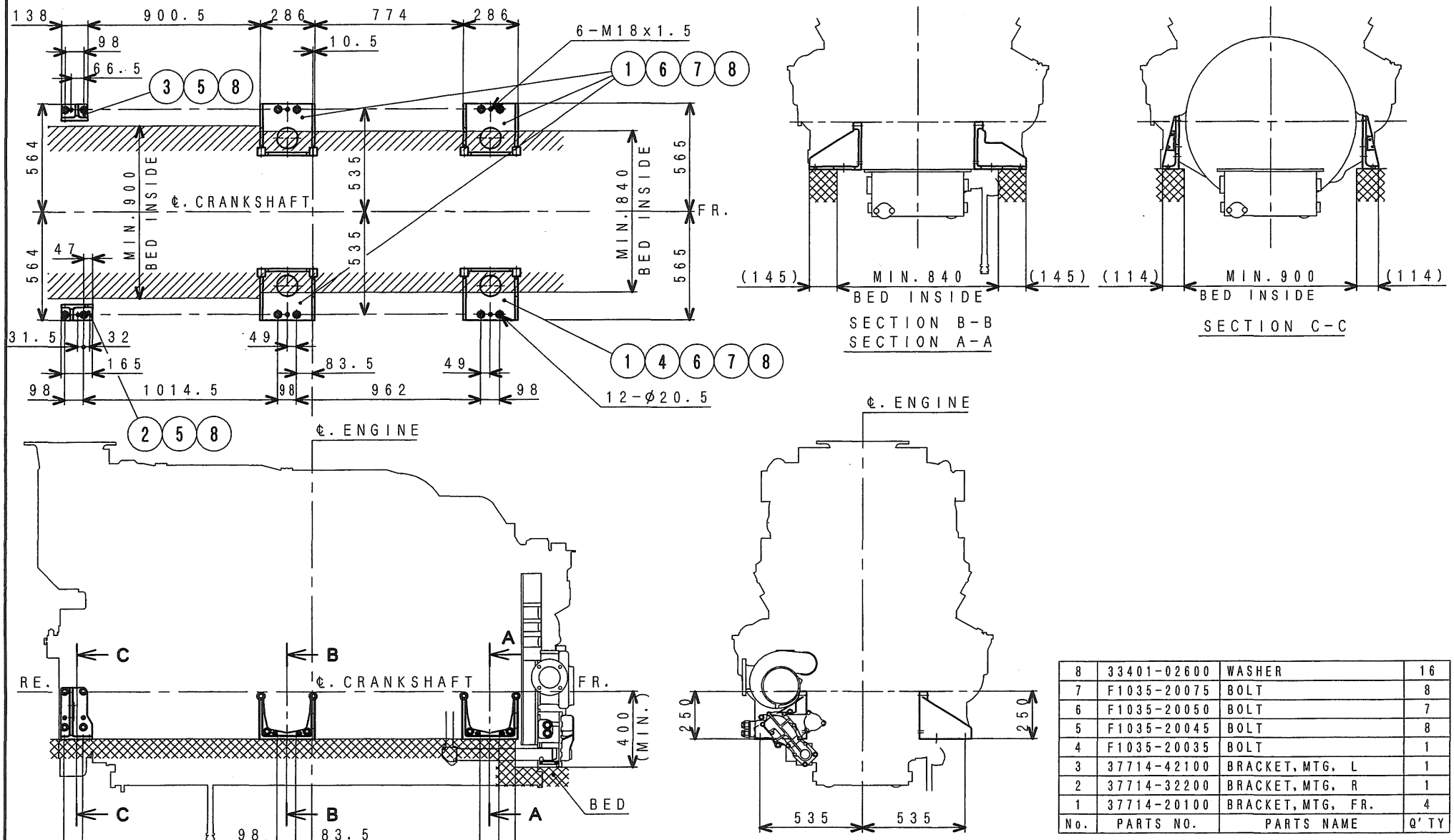
MHI CONFIDENTIAL

S16R-2 FOR STAND-BY USE WIRING DIAGRAM(ETR)

三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES,LTD.

図面番号 DRAWING No. 37896-04029 2/2

③新 図 4旧引図 | サイズ A2 | ①組立図 | 2鋳鋼溶製品 3板金溶接品 4組立品 5切削品 6その他(購入品)



No.	PARTS NO.	PARTS NAME	Q'TY
8	33401-02600	WASHER	16
7	F1035-20075	BOLT	8
6	F1035-20050	BOLT	7
5	F1035-20045	BOLT	8
4	F1035-20035	BOLT	1
3	37714-42100	BRACKET, MTG, L	1
2	37714-32200	BRACKET, MTG, R	1
1	37714-20100	BRACKET, MTG, FR.	4

M/C

注記 （1）本図は、マウンチングセンターハイトC＝250用である。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
4	4590-E901	'08.10.6	斉藤
3	4590-5477	'99.8.6	福田
2	4590-5002	'99.2.26	仁尾
5	4590-H421	'12.11.19	谷戸
1	4590-4536	'98.8.18	福田

3rd ANGLE PROJECTION
尺度 SCALE
:

認可 APPD 格12
検図 CHK 仁尾 福田
製図 DRN 谷戸
1998. 8. 20

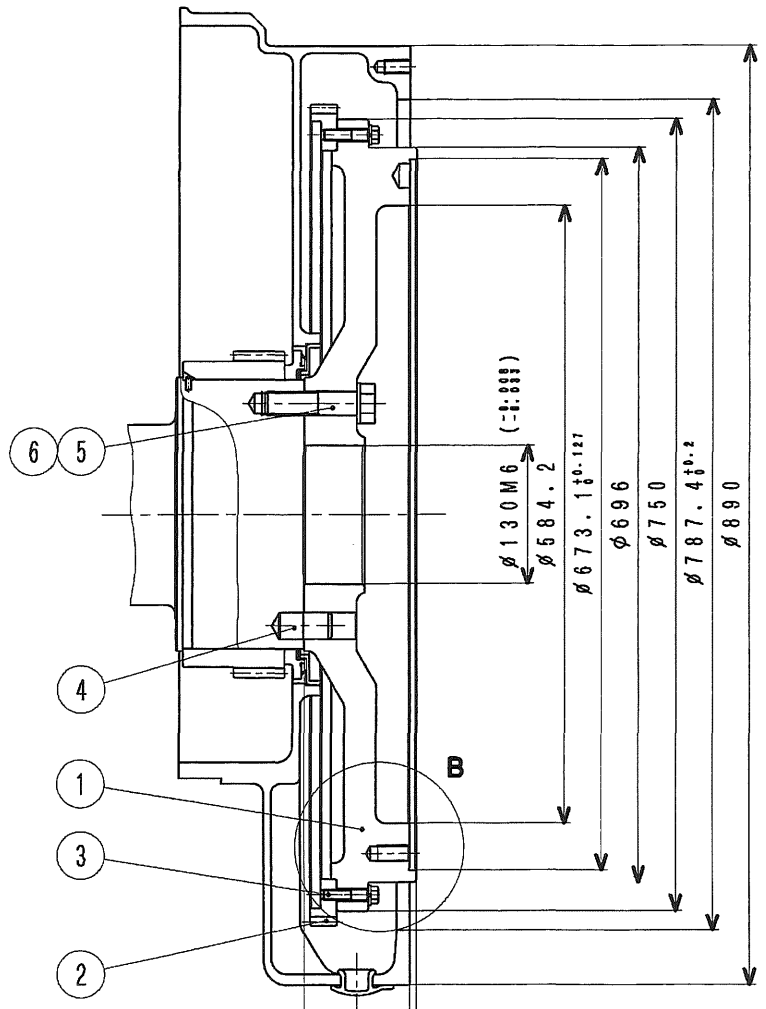
S16R

MOUNTING

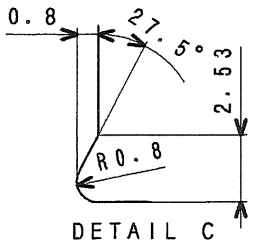
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37896-14001 5

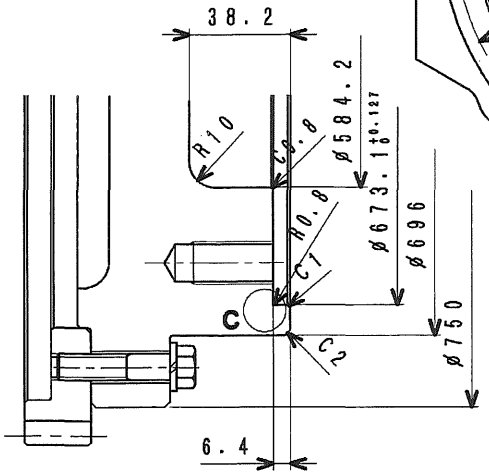
3 新図 ④旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛鋼単品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）



SECTION A-A



DETAIL C



DETAIL B

No.	PARTS NO.	PARTS NAME		Q'TY
6	33707-11701	WASHER		12
5	F1035-22090	BOLT		12
4	37820-04600	PIN, DOWEL		2
3	F1805-10045	BOLT	37721-00061 F/W ASSY.	12
2	37721-20201	GEAR, RING		1
1	37721-00601	FLYWHEEL		1

MHI CONFIDENTIAL

CHG	ED-NO	DATE	CHK
3	4590-G654	'11. 3.28	斉藤
2	4590-D678	'07.10. 4	斉藤
1	4591-0261	'03. 9.12	福田

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	竹谷 福田	谷戸 斉藤
		1997. 8. 7

S16R
FLYWHEEL & HOUSING

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

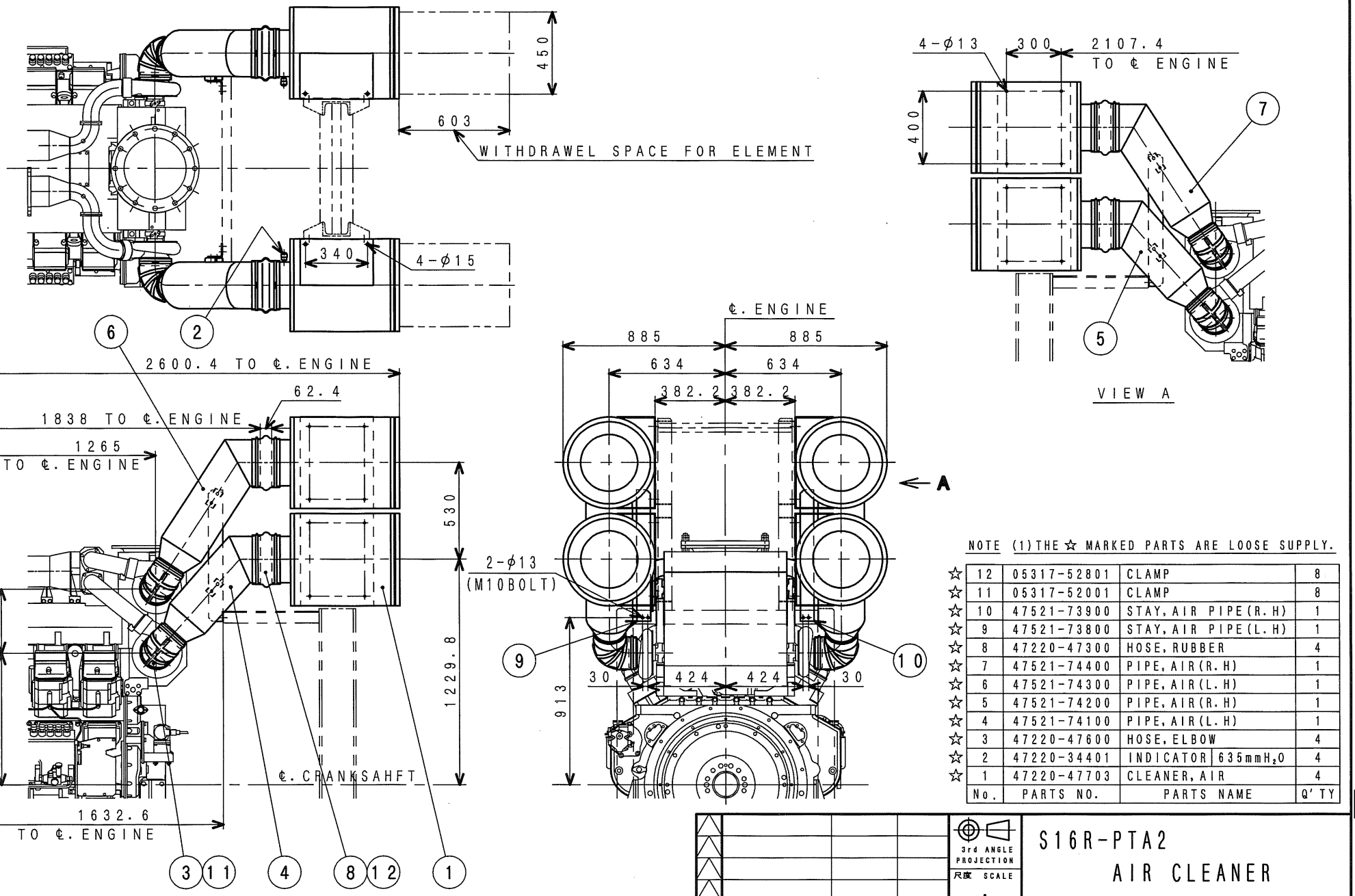
図面番号 DRAWING No. 37896-21001 ③

注記
(2) 本図のフライホイールは、部番37721-00061 F/W ASSY. に含まれる。
(1) 本図は、標準フライホイール&ハウジングであり、SAEJ620c21inフライホイール及びSAE617b NO. 00フライホイールハウジングに準拠する。

3 新図 ④ 旧引図 | サイズ A3 | ① 組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

旧引 汎特 2011 12.12

FULL-CAD



NOTE (1)THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
☆	12	05317-52801	CLAMP	8
☆	11	05317-52001	CLAMP	8
☆	10	47521-73900	STAY, AIR PIPE(R.H)	1
☆	9	47521-73800	STAY, AIR PIPE(L.H)	1
☆	8	47220-47300	HOSE, RUBBER	4
☆	7	47521-74400	PIPE, AIR(R.H)	1
☆	6	47521-74300	PIPE, AIR(L.H)	1
☆	5	47521-74200	PIPE, AIR(R.H)	1
☆	4	47521-74100	PIPE, AIR(L.H)	1
☆	3	47220-47600	HOSE, ELBOW	4
☆	2	47220-34401	INDICATOR 635mmH_2O	4
☆	1	47220-47703	CLEANER, AIR	4

M/C

注記 (1)本図のエアクリーナは、ドナルドソン製EGB-20型である。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

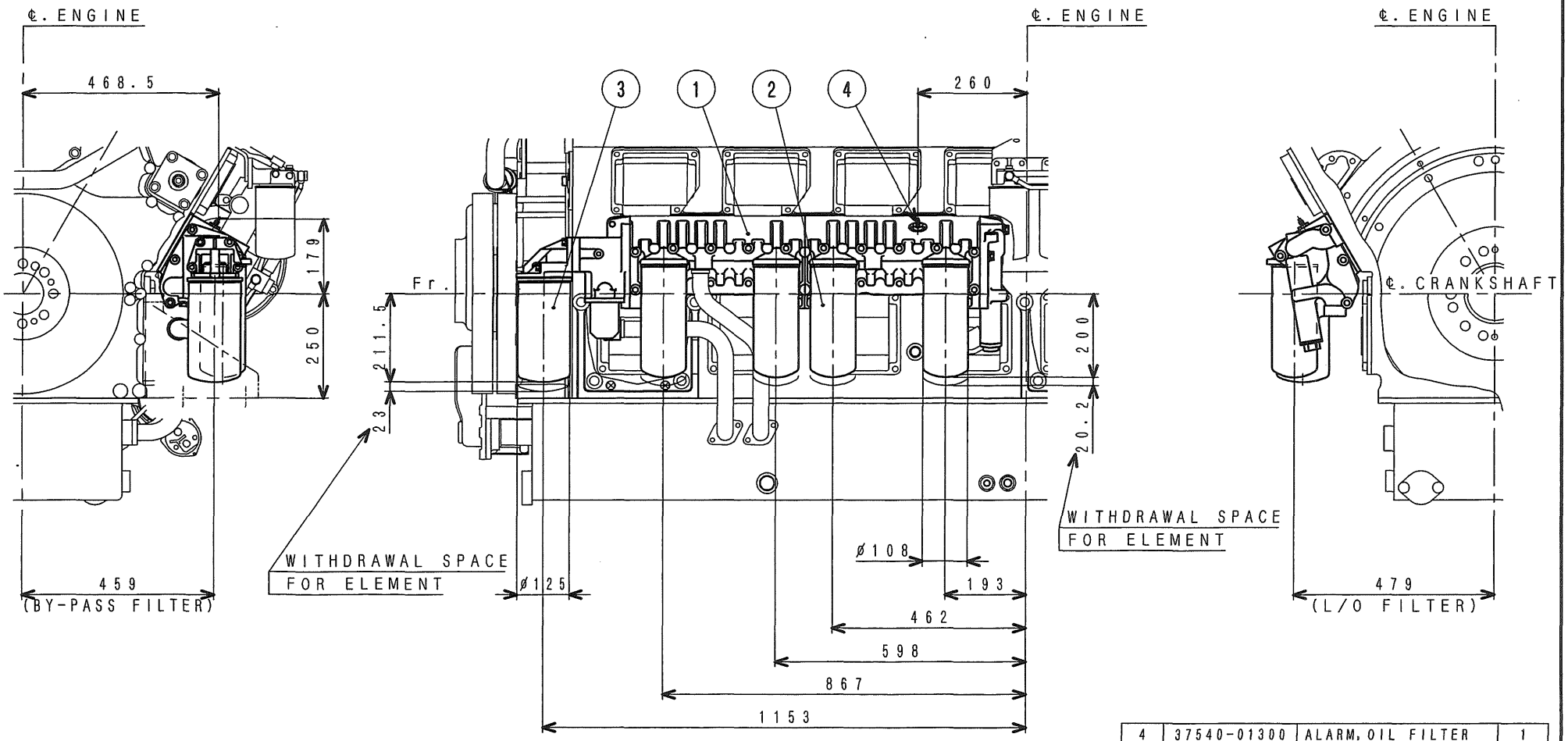
認可 APPD	検図 CHK	製図 DRN
	塚本 中村	谷戸
		2012.11.28

S16R-PTA2
AIR CLEANER

三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 37896-30308 △

3 新図 ④旧引図	サイズ* A 3	①組立図	2 鋳鍛造部品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)



No.	PARTS NO.	PARTS NAME	Q'TY
4	37540-01300	ALARM, OIL FILTER	1
3	37540-02100	BY-BASS FILTER CARTRIDGE	(1)
2	37540-11100	ELEMENT, L/O. CTRG	(4)
1	37740-60010	OIL FILTER ASSY. L.H-P	1

M/C

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
3	4590-H427	'12.11.19	谷戸
2	4590-E903	'08.10. 6	斉藤
1	4590-7906	'01. 6.20	福田

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
	竹 福 谷 田	谷 斎 戸 藤
		1997. 8. 7

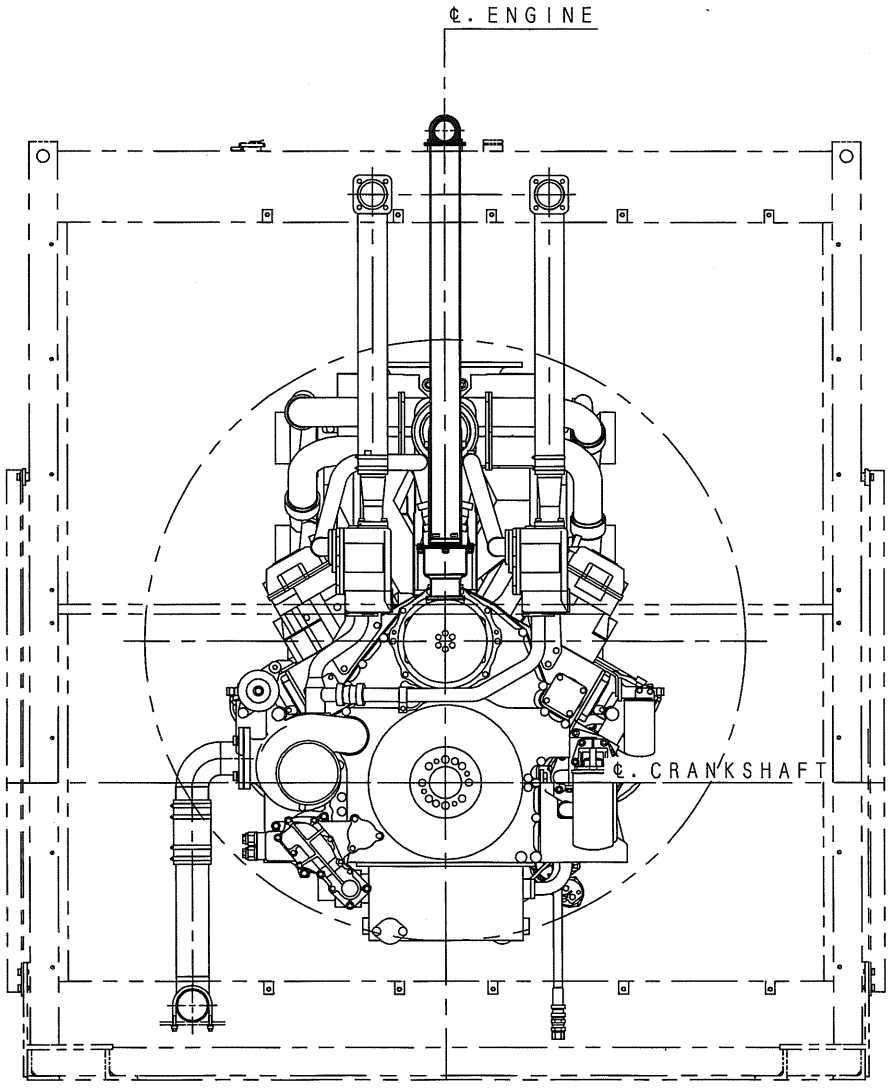
S16R
LUB. OIL FILTER

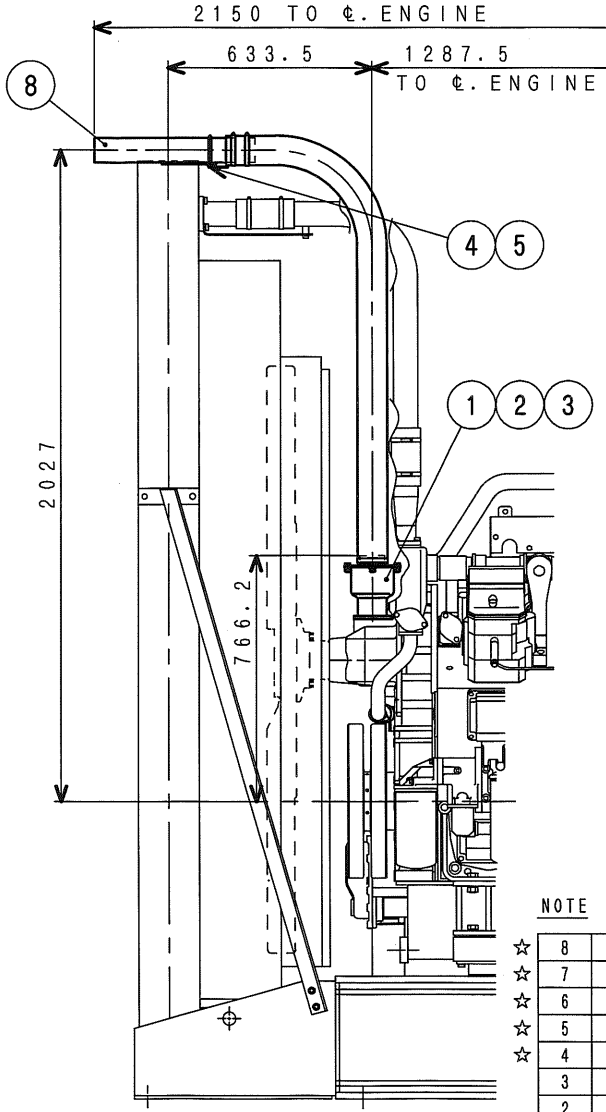
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

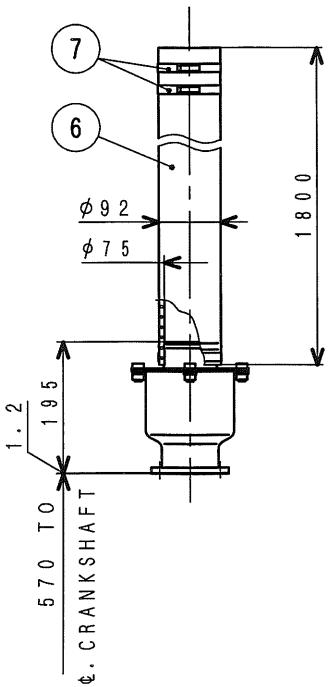
図面番号 DRAWING No. 37896-40001 3

注記 (1)本図は、標準4連オイルフィルタ装着図である。

3 新図 4 旧引図	サイズ A3	① 組立図	2 鋳鍛造品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)







DETAIL OF BREATHER

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
☆	8	04820-08050	PIPE, BREATHER	1
☆	7	05317-51001	CLAMP	4
☆	6	45955-22180	HOSE, VINYL	1
☆	5	45717-62601	U-BOLT	1
☆	4	47510-55601	STAY, PIPE	1
	3	F1805-12025	BOLT	4
	2	35B43-01500	PACKING	1
	1	37743-00501	BREATHER ASSY.	1

MHI CONFIDENTIAL

M/C

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD 橋口

検図 CHK 塚中 本村

製図 DRN 谷戸

2012.11.28

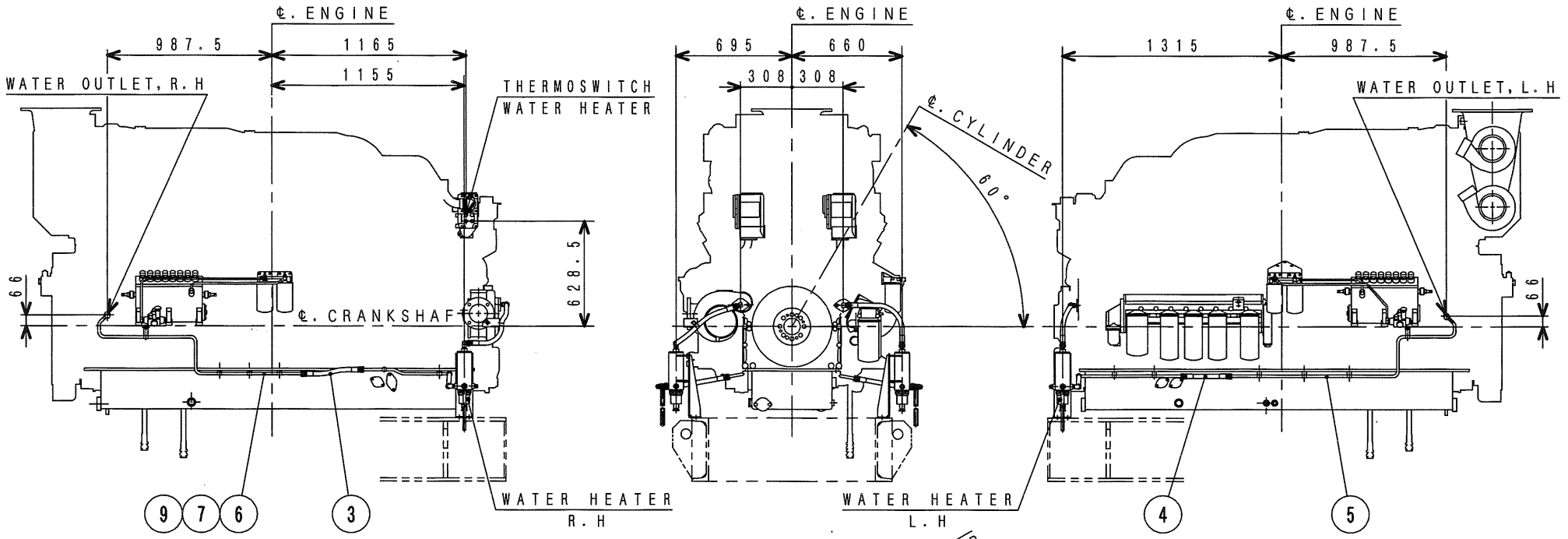
S16R-PTA2
BREATHER

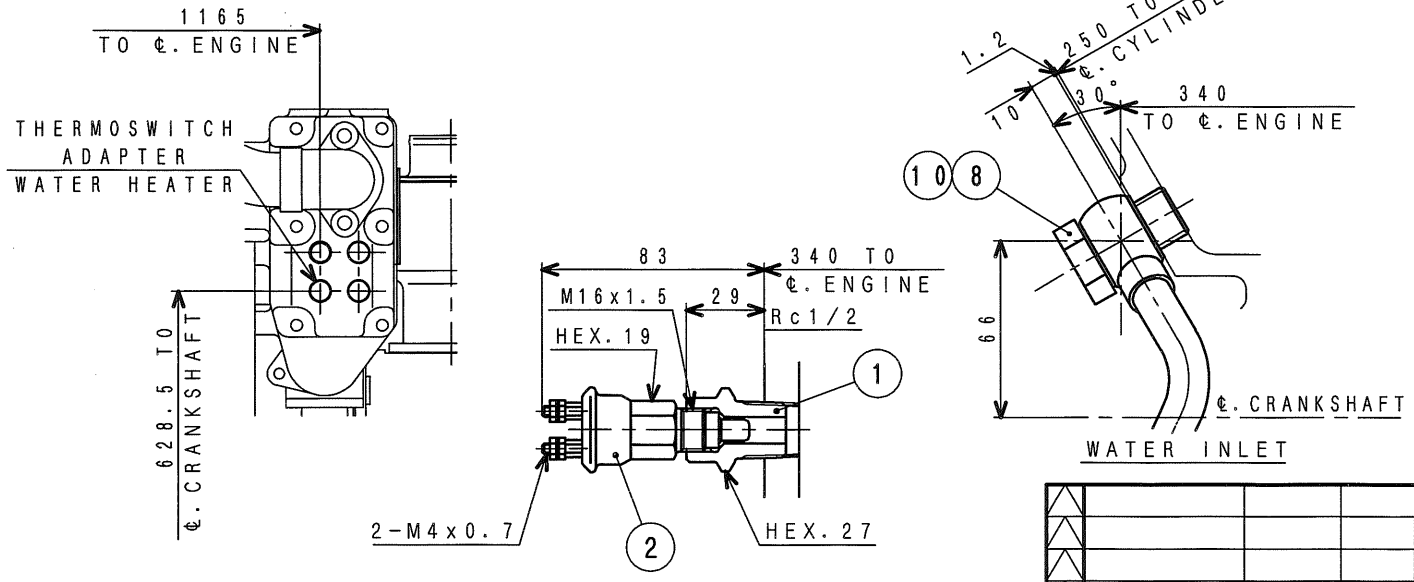
三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS, MITSUBISHI HEAVY INDUSTRIES, LTD.

図面番号 DRAWING No. 37896-43014 △

③新図 4旧引図 | サイズ A3 | ①組立図 | 2鋳鋼歯車品 3板金溶接品 4組立品 5切削品 6その他(購入品)

注記 (1)本図は、オイルフィラ装備前側上向きブリーザ及びパイピング図である。





No.	PARTS NO.	PARTS NAME	Q'TY
10	05946-02001	WASHER, SEALING	4
9	F2515-12000	WASHER	1
8	F4610-20000	BOLT, EYE	2
7	F1035-12060	BOLT	1
6	47520-65402	PIPE, WATER	1
5	47520-65500	PIPE, WATER	1
4	45961-13030	PIPE, FLEXIBLE	1
3	45961-13039	PIPE, FLEXIBLE	1
2	04442-30210	SWITCH, THERMO 42℃OFF	1
1	45600-42902	CONNECTOR	1

M/C

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE

MHI CONFIDENTIAL

認可 APPD	検図 CHK	製図 DRN
橋口	塚中 / 本村	谷戸
		2012. 12. 6

S16R

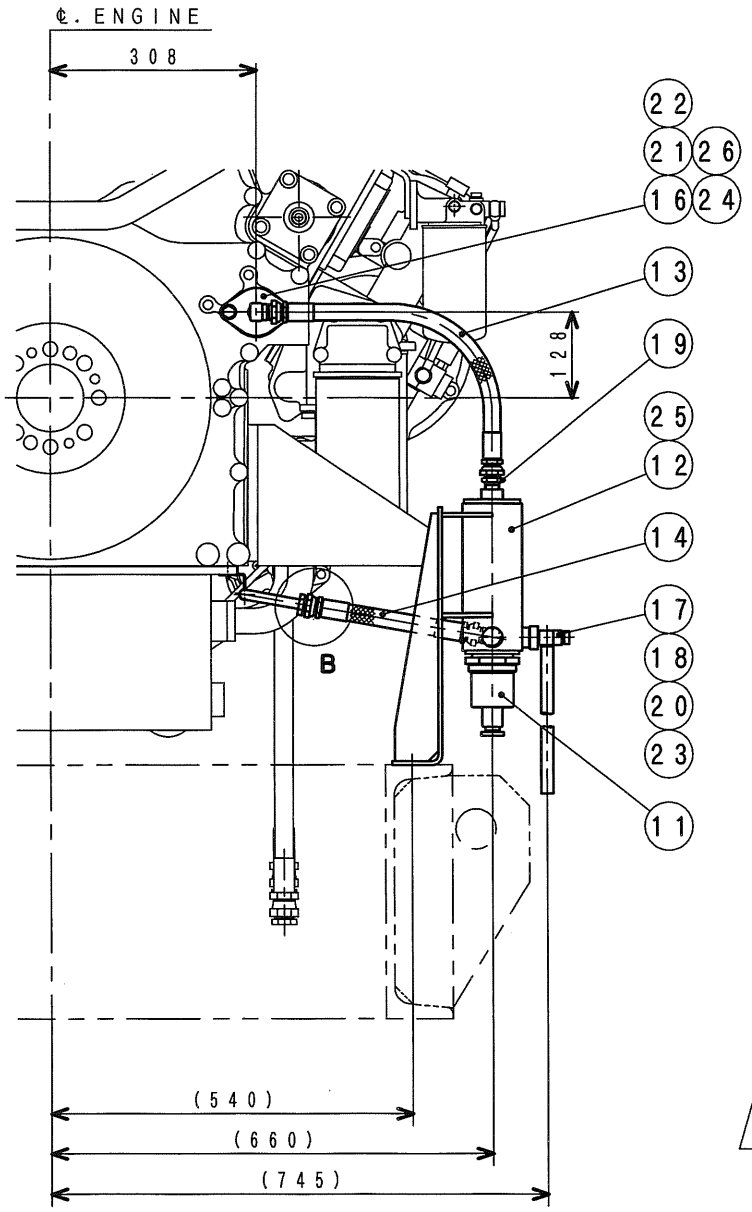
WATER HEATER PIPING

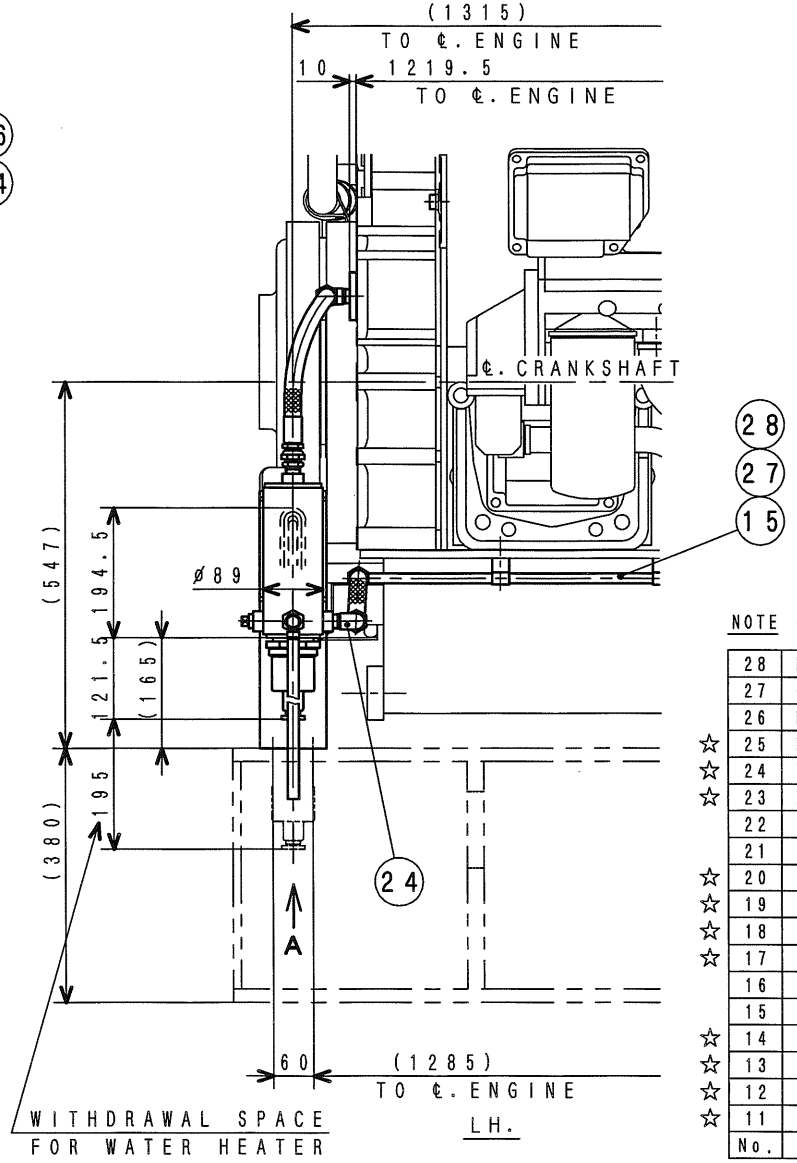
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

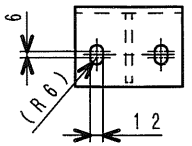
図面番号 DRAWING No. 37896-46309 △

1/3

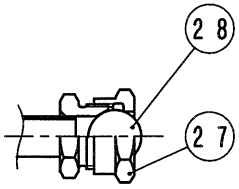
③ 新図 4 旧引図 | サイズ A 3 | ① 組立図 | 2 鋳鋼鋳軍品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）







VIEW A



DETAIL B

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
	28	F8000-25000	BALL, STEEL	2
	27	00426-15011	NUT, UNION	2
	26	F5006-21000	PLUG, TAPER	2
☆	25	F5006-21000	PLUG, TAPER	2
☆	24	F4656-15000	ELBOW	5
☆	23	F4300-01600	CLAMP, HOSE	2
	22	F3153-05500	O-RING	2
	21	F1805-12025	BOLT	4
☆	20	05946-02001	WASHER, SEALING	2
☆	19	00434-15011	CONNECTOR	1
☆	18	33407-16100	COCK, DRAIN	2
☆	17	30007-65200	VINYL HOSE	2
	16	42800-53802	COVER	2
	15	47521-62800	PIPE, WATER	1
☆	14	45961-13034	PIPE, FLEXIBLE	2
☆	13	45961-13052	PIPE, FLEXIBLE	1
☆	12	47521-62901	CASE, HEATER	2
☆	11	04393-XXXXX	HEATER, WATER	2

M/C

注記 (1) 本図の符合 (26)、(27)、(28) は、W/H配管盲せん用である。

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

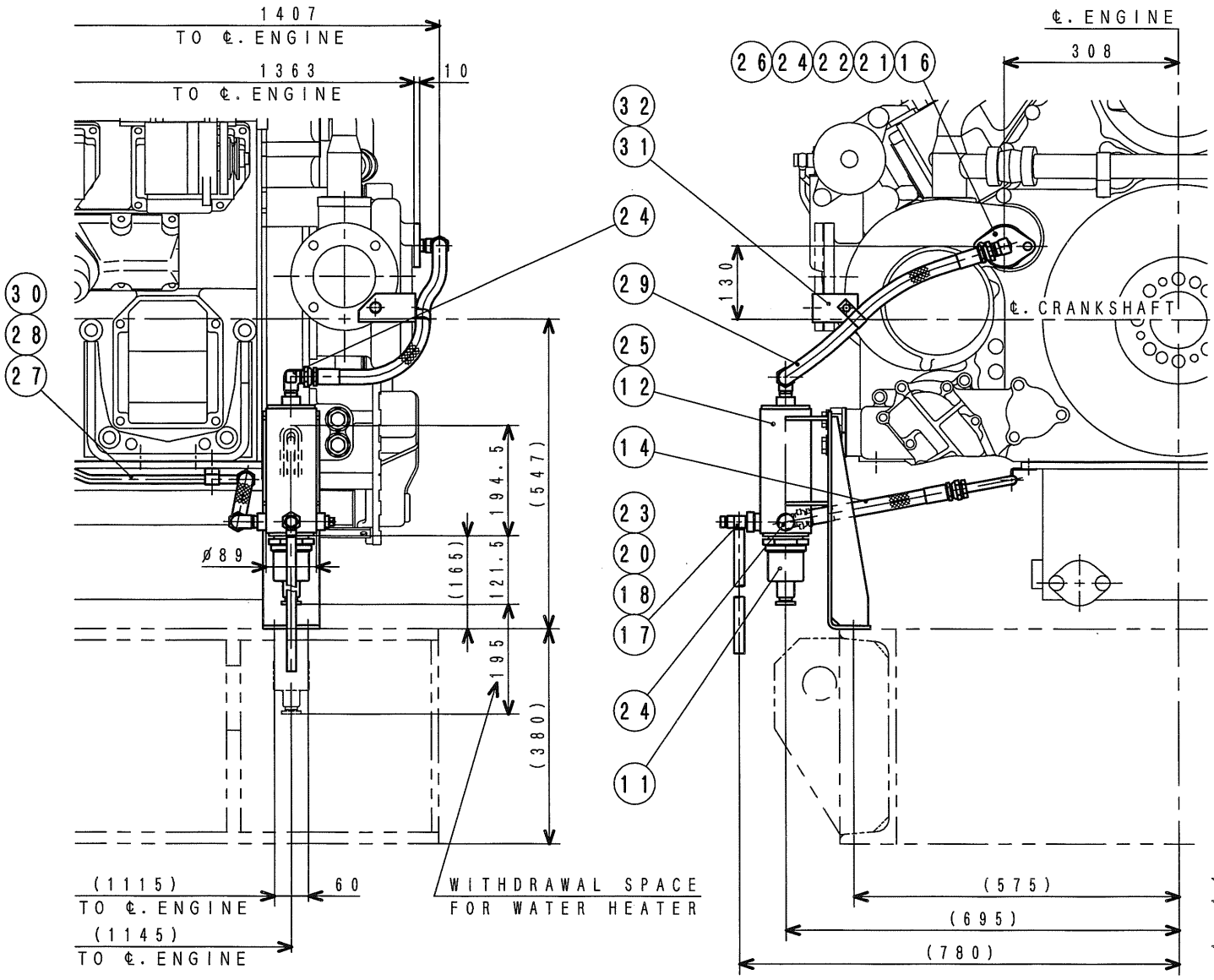
認可 APPD	検図 CHK	製図 DRN
橋口	塚中 / 本村	谷戸
		2012.12.6

S16R
WATER HEATER PIPING

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37896-46309 △

③新図 4旧引図 | サイズ A3 | ①組立図 | 2鋳鍛鋳造品 3板金溶接品 4組立品 5切削品 6その他(購入品)



NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
☆	32	F2882-25000	CLIP	1
☆	31	47521-63100	STAY	1
	30	47521-62700	PIPE, WATER	1
☆	29	45961-13058	PIPE, FLEXIBLE	1

M/C

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	塚中 ✓本村	谷戸
		2012.12.6

MHI CONFIDENTIAL

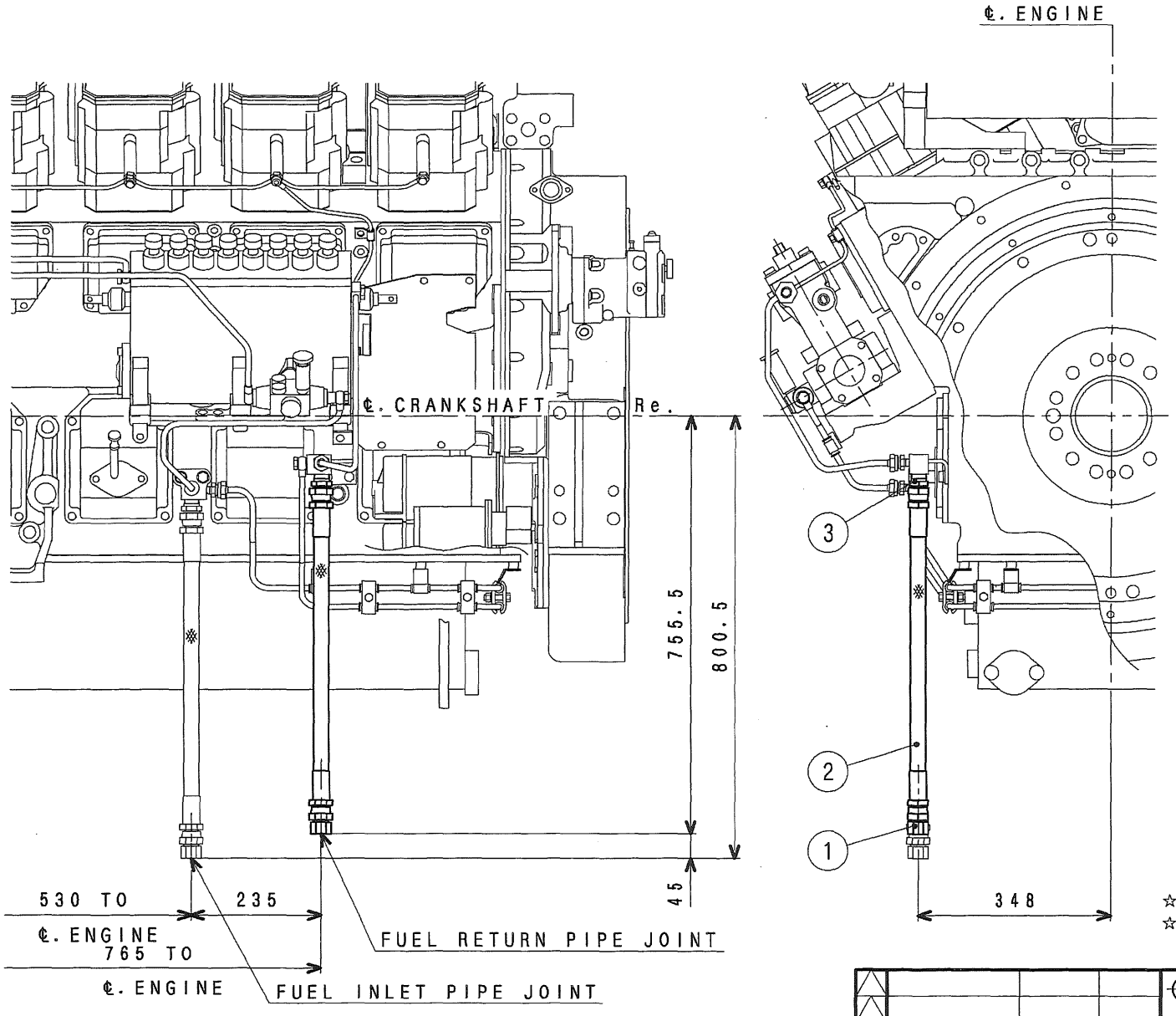
S16R
WATER HEATER PIPING

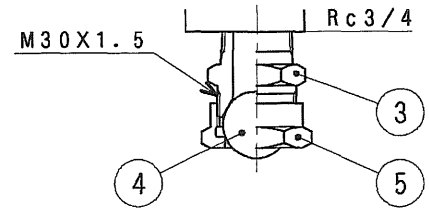
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37896-46309 △

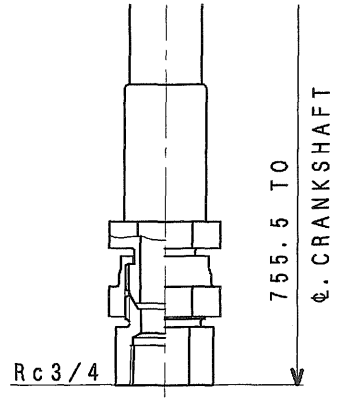
3/3

③ 新図 ④ 旧引図 | サイズ A3 | ① 組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）





FUEL RETURN PIPE JOINT



FUEL RETURN PIPE JOINT

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	NO.	PARTS NO.	PARTS NAME	Q'TY
	5	F4521-20000	NUT, UNION	1
	4	F8000-32000	STEEL BALL, BEARING	1
	3	F4540-20000	CONNECTOR	1
☆	2	45950-51700	PIPE, FLEXIBLE	1
☆	1	45950-11300	CONNECTOR	1

出図 三菱 汎特 2008 12.12

FULL-CAD

MHI CONFIDENTIAL

注記 (1) 本図は、図番37896-61305に対しフレキホース及び先端コネクタを別送品としたものである。
(2) 本図の符号 ④⑤ は、燃料戻り口盲栓である。(エンジン出荷状態)

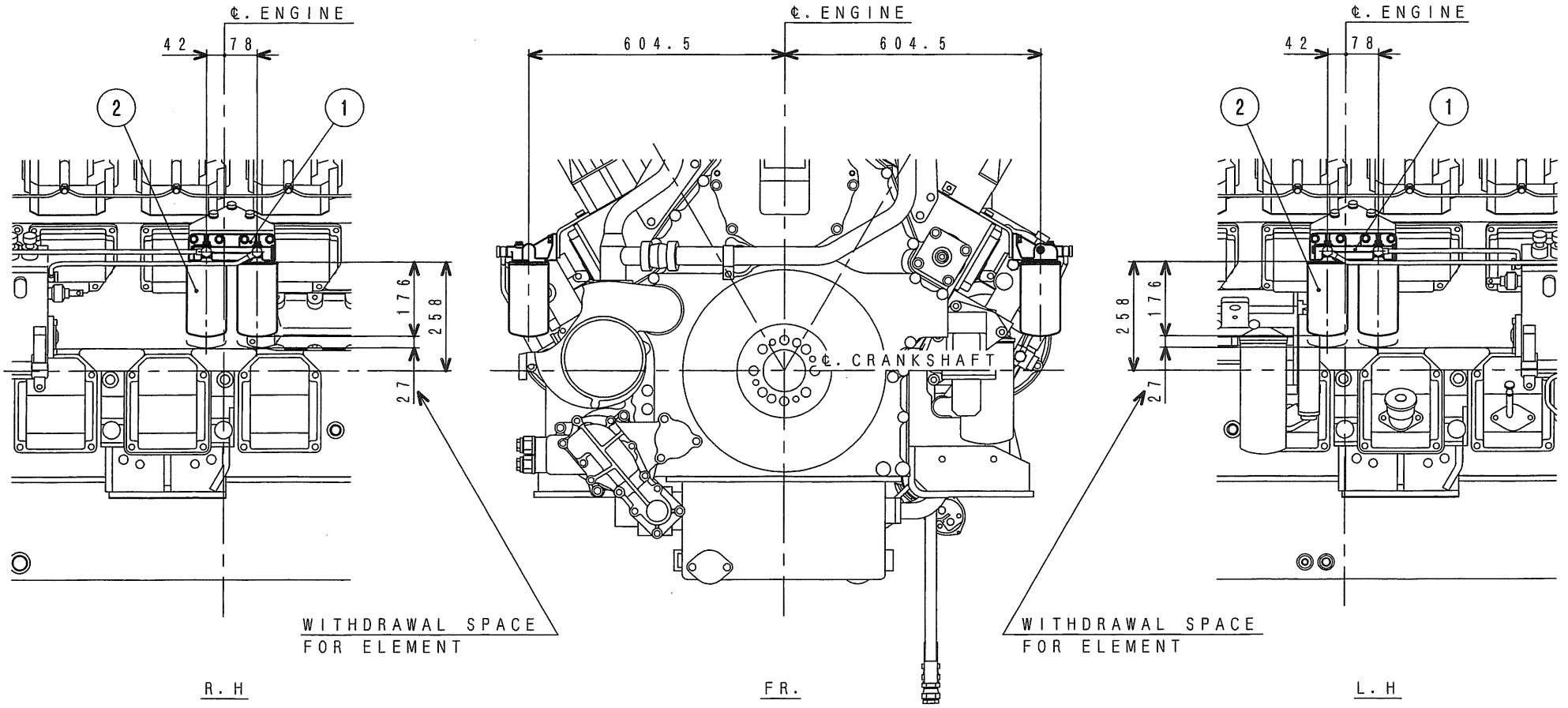
CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	三谷 上戸	浅沼 2008.12.10

S16R
FUEL RETURN PIPING
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
図面番号 DRAWING No. 37896-61312 △

③新図 4旧引図 | サイズ A3 | ①組立図 | 2鋳鍛造品 3板金溶接品 4組立品 5切削品 6その他(購入品)



No.	PARTS NO.	PARTS NAME	Q'TY
2	32562-60300	ELEMENT, FUEL	(4)
1	32562-60100	F/F ASSY. CTR L.O	2

M/C

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
1	4590-H423	'12.11.19	谷戸

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD 福12

検図 CHK 竹福 谷田

製図 DRN 谷翁 戸島

1998. 2. 2

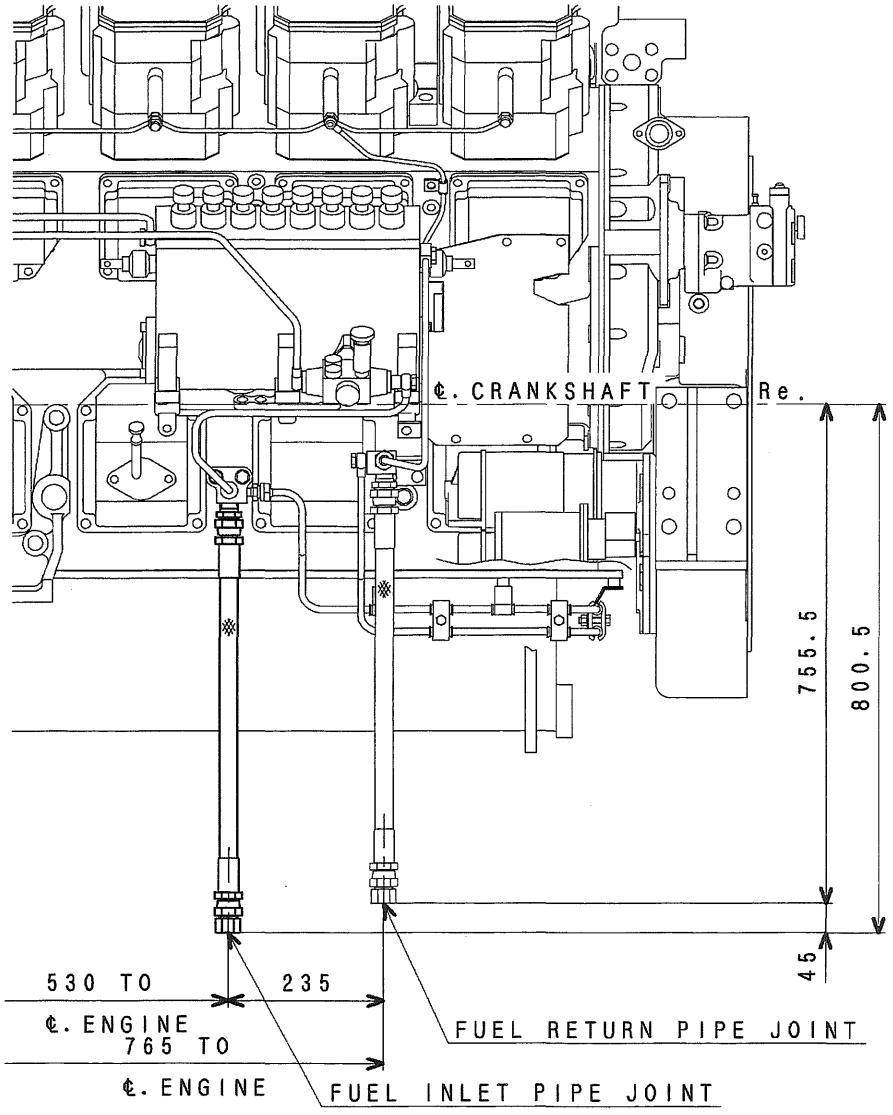
S16R
FUEL FILTER PIPING

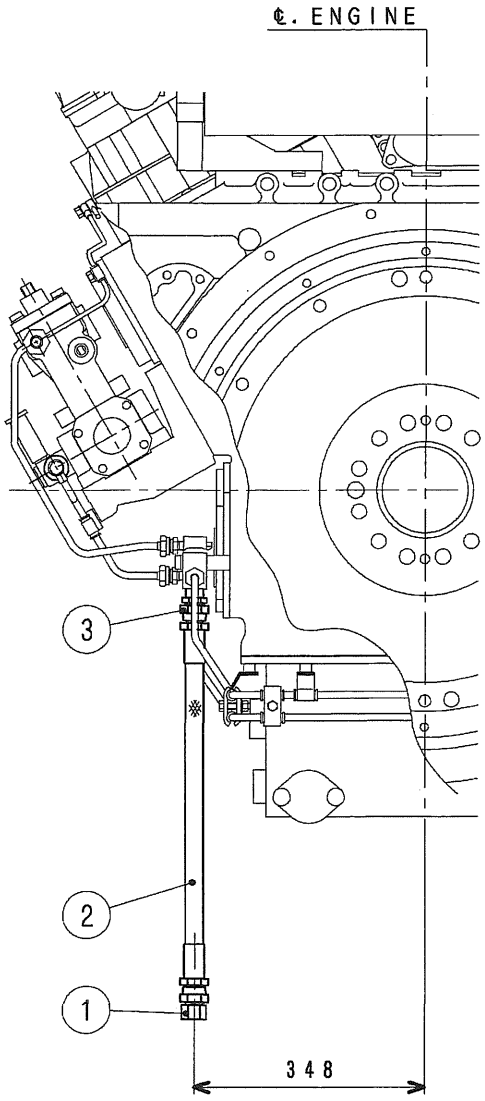
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

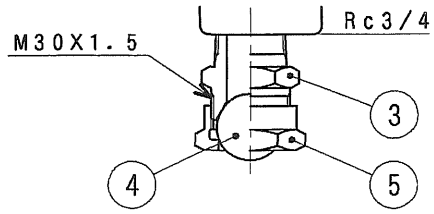
図面番号 DRAWING No. 37896-62002 1

注記 (1)本図のF.Oエレメントは、軽油用である。

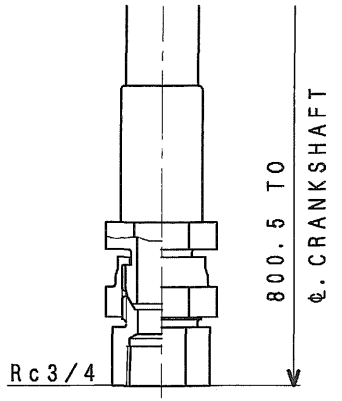
③新図 4旧引図	サイズ A3	①組立図	2 鋳鍛鋳軍品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)







DETAIL OF INLET PIPE JOINT



DETAIL OF INLET PIPE JOINT

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	NO.	PARTS NO.	PARTS NAME	Q'TY
	5	F4521-20000	NUT, UNION	1
	4	F8000-32000	STEEL BALL, BEARING	1
	3	F4540-20000	CONNECTOR	1
☆	2	45950-51700	PIPE, FLEXIBLE	1
☆	1	45950-11300	CONNECTOR	1

出図 ▲ 汎特 2008 12.12

FULL-CAD

MHI CONFIDENTIAL

注記 (1) 本図は、図番37896-62101に対しフレキホース及び先端コネクタを別送品としたものである。
(2) 本図の符号 ④⑤ は、燃料入口盲栓である。(エンジン出荷状態)

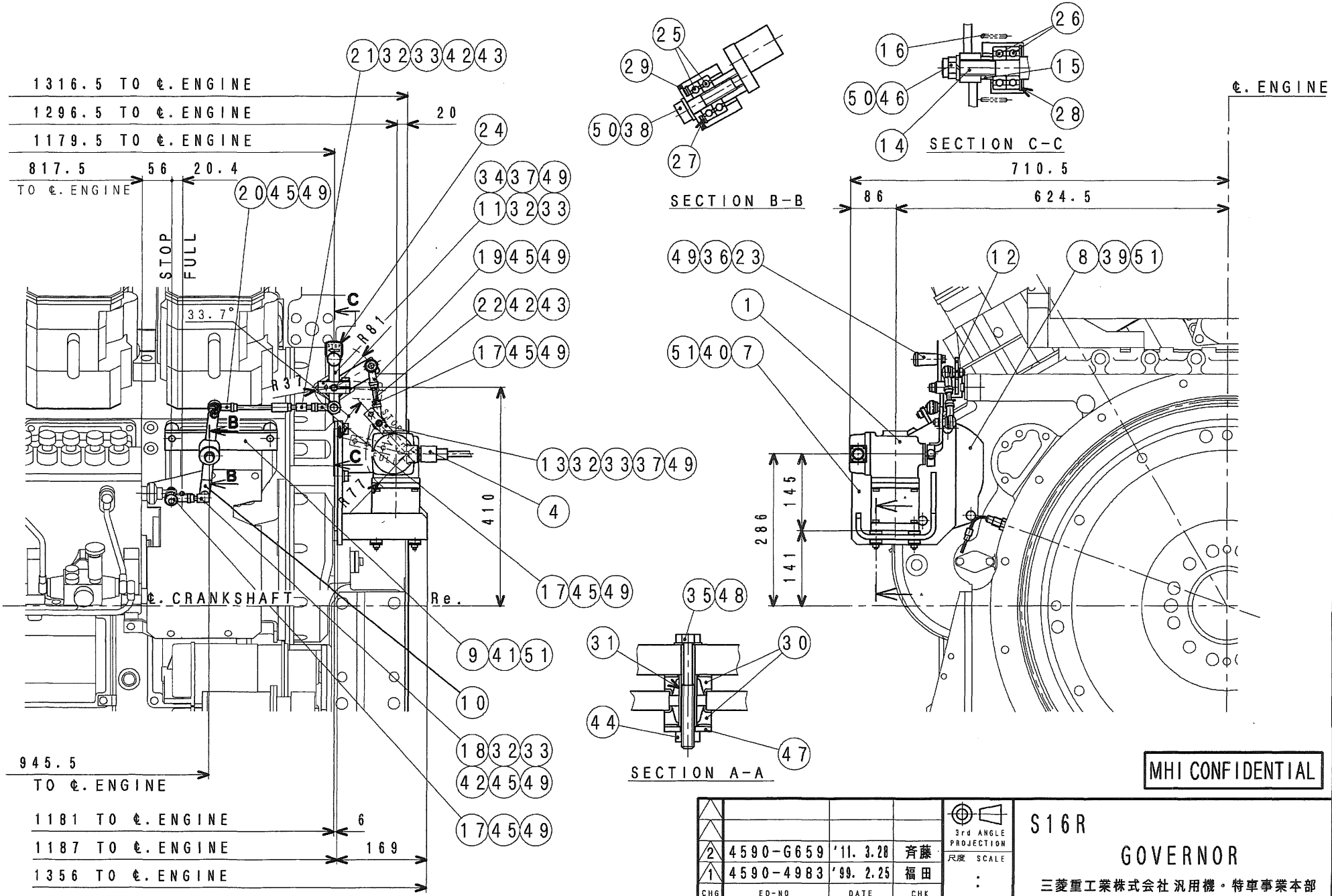
CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	三谷 上戸	浅沼 2008.12.10

S16R
FUEL INLET PIPING
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
図面番号 DRAWING No. 37896-62112 △

③新図 4旧引図	サイズ A3	①組立図	2鋳鍛圧単品 3板金溶接品 4組立品 5切削品 6その他(購入品)



注記 (1) 本図は、SG4017BR電子ガバナコントロールボックス（ユニット）仕様である。

(2) 整定周波数範囲：3575～5790Hz、エンジン回転数：1500/1800rpm共用

CHG	ED-NO	DATE	CHK
2	4590-G659	'11. 3.28	斉藤
1	4590-4983	'99. 2.25	福田

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	竹谷 福田	谷戸 鍋島
		1998. 3. 9

S16R

GOVERNOR

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MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

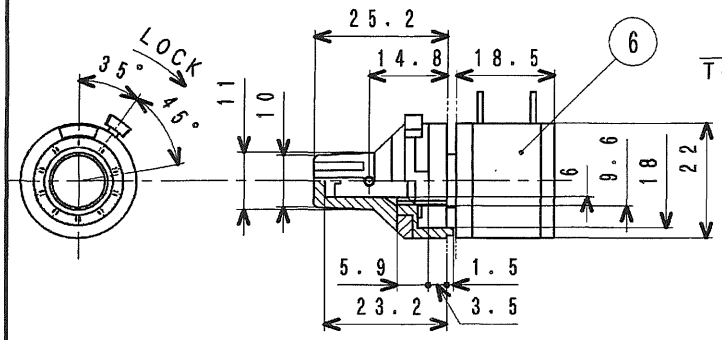
図面番号 DRAWING No. 37896-63005 ② 1/2

3 新図 ④ 旧引図	サイズ A3	① 組立図	2 鍛鋳歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

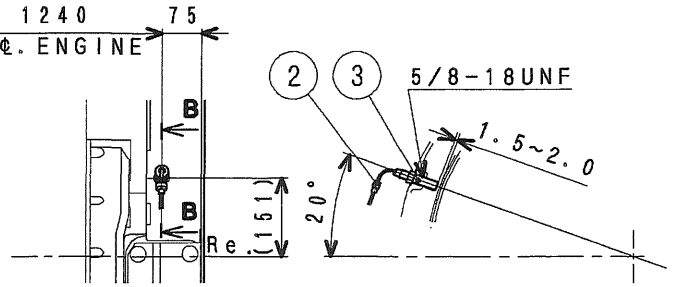
旧引 三菱 汎特 2011 12.12

MHI CONFIDENTIAL

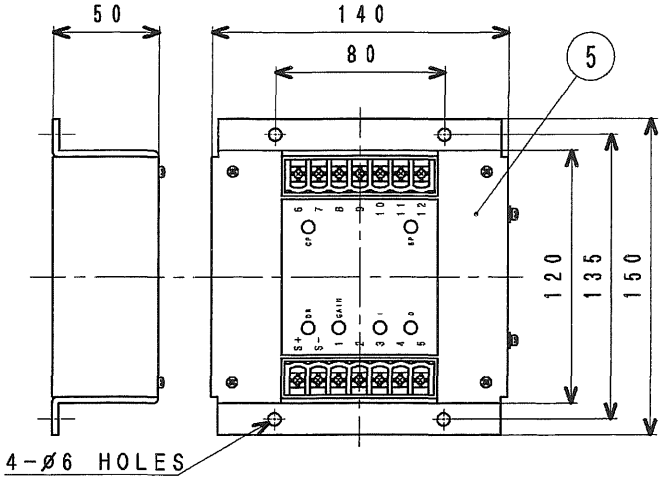
FULL-CAD



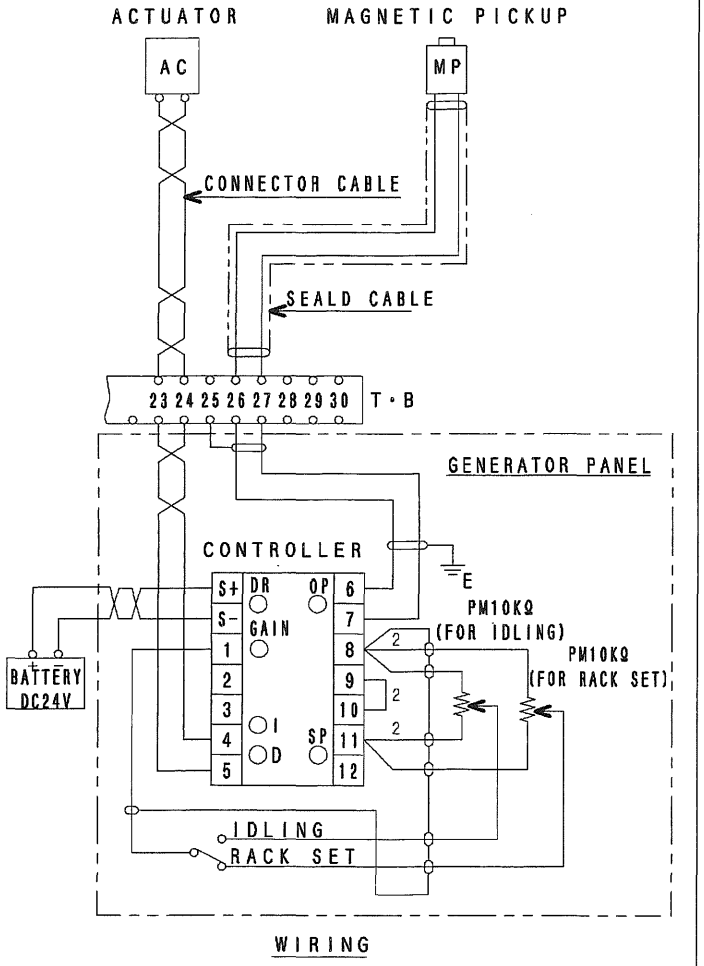
POTENTIOMETER



DETAIL OF PICK UP　　SECTION A-A



CONTROLLER



WIRING

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

51	F2515-12000	WASHER, SPRING	6
50	F2515-10000	WASHER, SPRING	2
49	F2515-08000	WASHER, SPRING	9
48	F2515-06000	WASHER, SPRING	4
47	08302-06000	WASHER	4
46	F2445-10000	NUT, SELF LOCKING	1
45	F2300-08000	NUT	6
No.	PARTS NO.	PARTS NAME	Q'TY

44	F2300-06000	NUT		4
43	09413-00800	NUT, LOCK		2
42	33063-11400	NUT		3
41	F1035-12065	BOLT		2
40	F1035-12035	BOLT		3
39	F1035-12025	BOLT		1
38	F1035-10040	BOLT		1
37	F1115-08025	BOLT		2
36	F1035-08020	BOLT		1
35	F1035-06050	BOLT		4
34	F2846-06000	PIN, DOWEL		1
33	48000-96600	SEAL		5
32	34461-07700	WIRE, SEAL		5
31	47500-34200	SPACER		4
30	47500-34100	RUBBER		8
29	32561-18300	PLATE, END		1
28	F3202-03200	RING, SNAP		1
27	F3202-03000	RING, SNAP		1
26	F8007-06201	BEARING, BALL		2
25	F8007-06200	BEARING, BALL		2
24	45940-30101	PLATE, CAUTION		1
23	51776-03000	GRIP		1
22	05902-08060	ROD		1
21	05903-00100	ROD		1
20	37761-26800	LINK, L.H.		1
19	35A61-38701	JOINT, BALL (M8-L)		1
18	37563-15401	JOINT, BALL MALE		1
17	35A61-38601	JOINT, BALL (M8-R)		3
16	32561-48600	SPRING		1
15	91365-03200	SPACER		1
14	37761-27100	SHAFT, CONTROL		1
13	47520-31200	LEVER		1
12	47520-34400	LEVER, L.H., B		1
11	37761-37200	LEVER, L.H., A		1
10	37761-27800	LEVER, LINK, L.H		1
9	37761-07600	BRACKET, LEVER, L.H		1
8	47500-39901	COVER		1
7	47520-31101	BRACKET, ACTUATOR		1
6	04410-33700	POTENTIOMETER	☆	2
5	04410-33100	CONTROLLER	☆	1
4	04410-32902	CONNECTOR	☆	1
3	04410-43410	PICK UP		1
2	04410-43500	CONNECTOR	☆	1
1	04410-32011	ACTUATOR		1
No.	PARTS NO.	PARTS NAME		Q'TY

CHG	EO-NO	DATE	CHK
2	4590-G659	'11. 3.28	斉藤
1	4590-4983	'99. 2.25	福田

3rd ANGLE PROJECTION
尺度 SCALE :

MHI CONFIDENTIAL

認可 APPD	検図 CHK	製図 DRN
橋口	竹福谷田	谷鍋戸島

1998. 3. 9

S16R

GOVERNOR

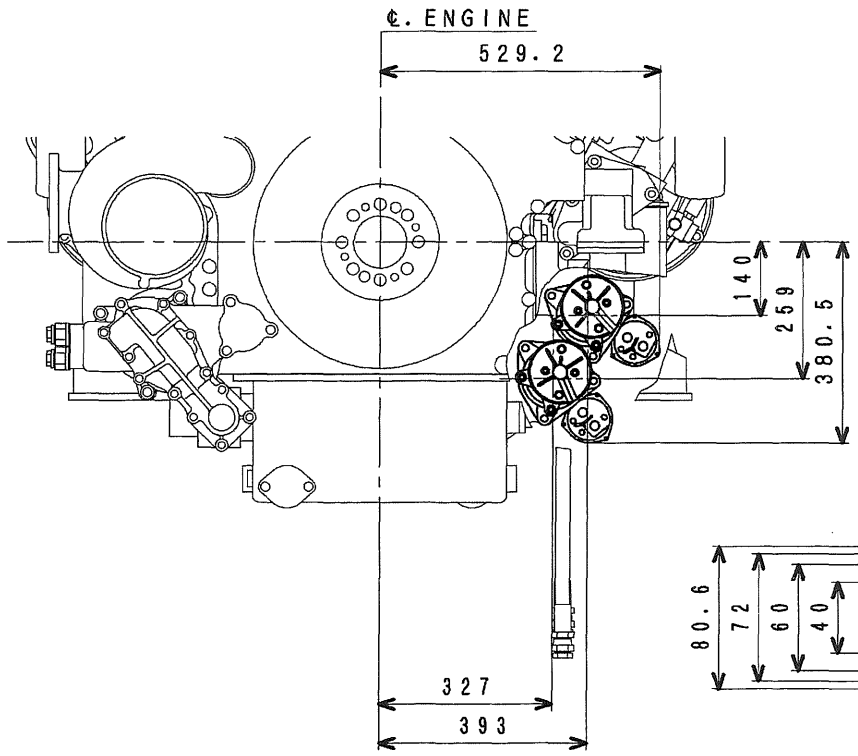
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

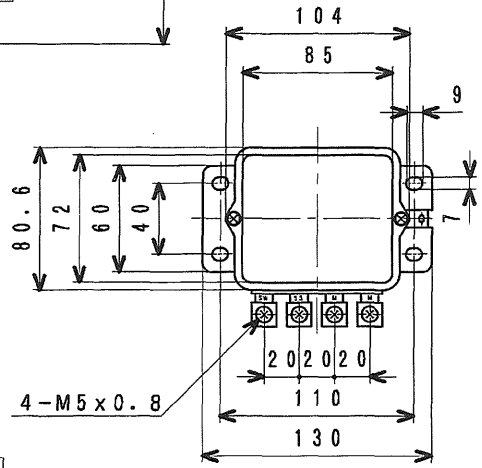
図面番号 DRAWING No. 37896-63005 ② 2/2

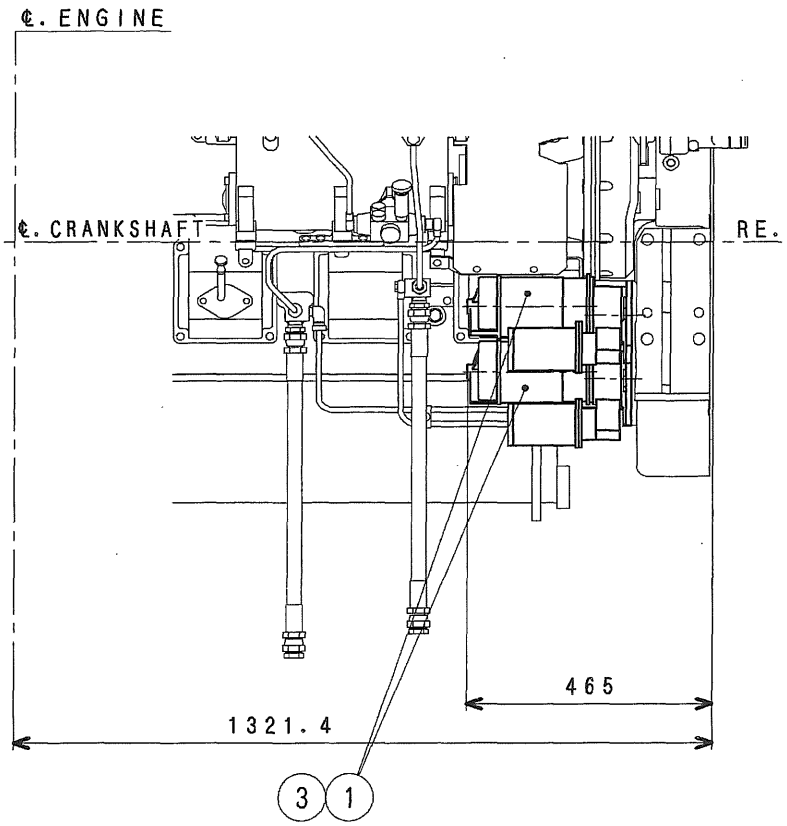
3 新図 ④ 旧引図	サイズ A3	① 組立図	2 鋳鍛圧品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

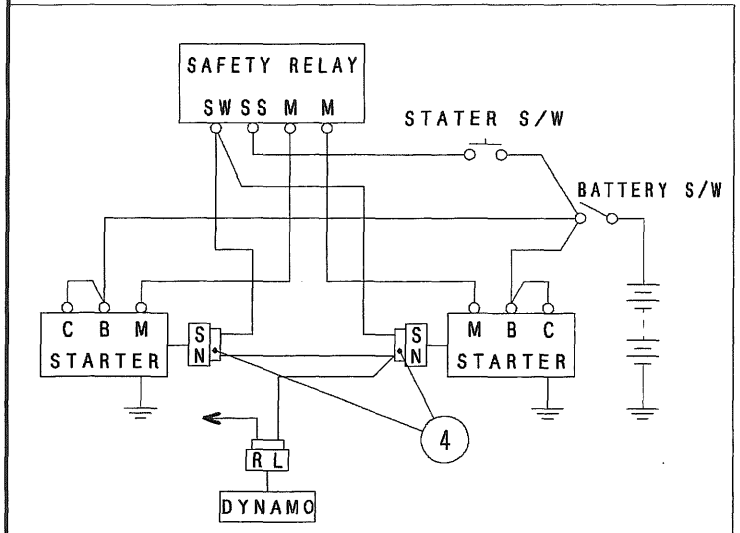
旧引 三菱 汎特 2011 12.12

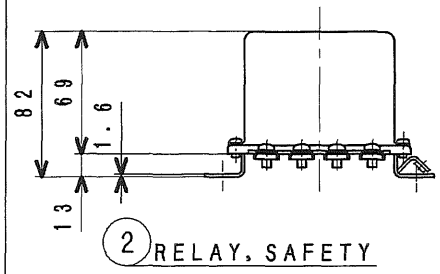
FULL-CAD











② RELAY, SAFETY

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
☆	4	F8665-02100	CONNECTOR	2
	3	F1805-12035	BOLT	6
☆	2	04322-40100	SAFETY MAGNETIC	1
	1	37766-20201	STARTER 7.5kW	2

CHG	EO-NO	DATE	CHK
2	4590-G660	'11. 3.29	斉藤
1	4590-6941	'00. 8.28	福田

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD 橋口
検図 CHK 竹谷 福田
製図 DRN 谷戸
1997. 8. 8

MHI CONFIDENTIAL

S16R
STARTING MOTOR

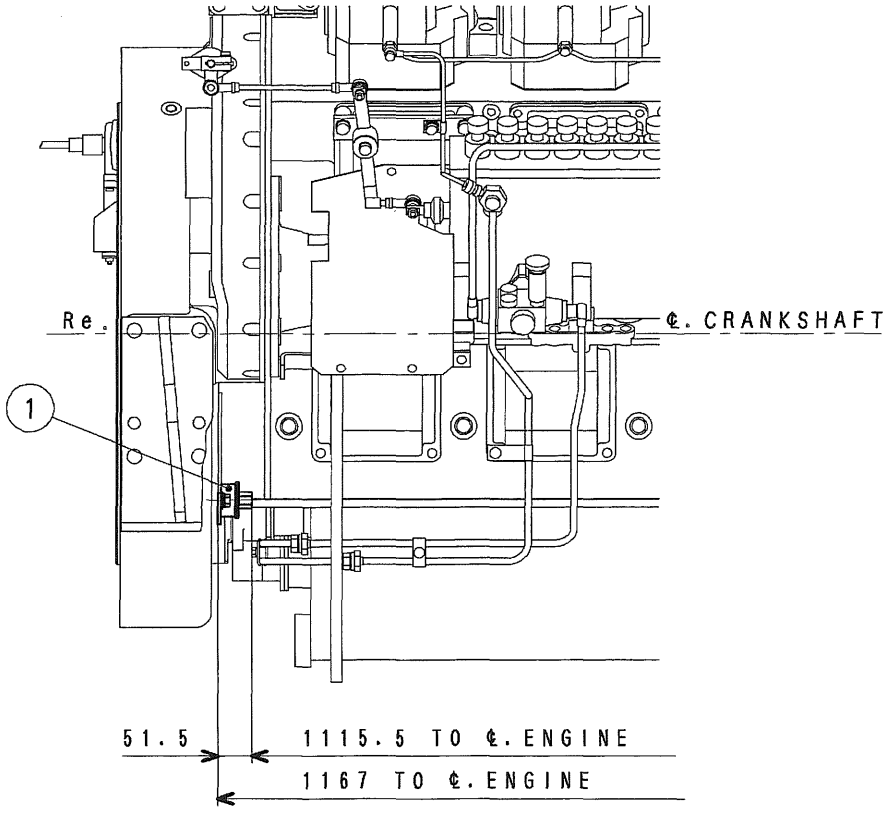
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

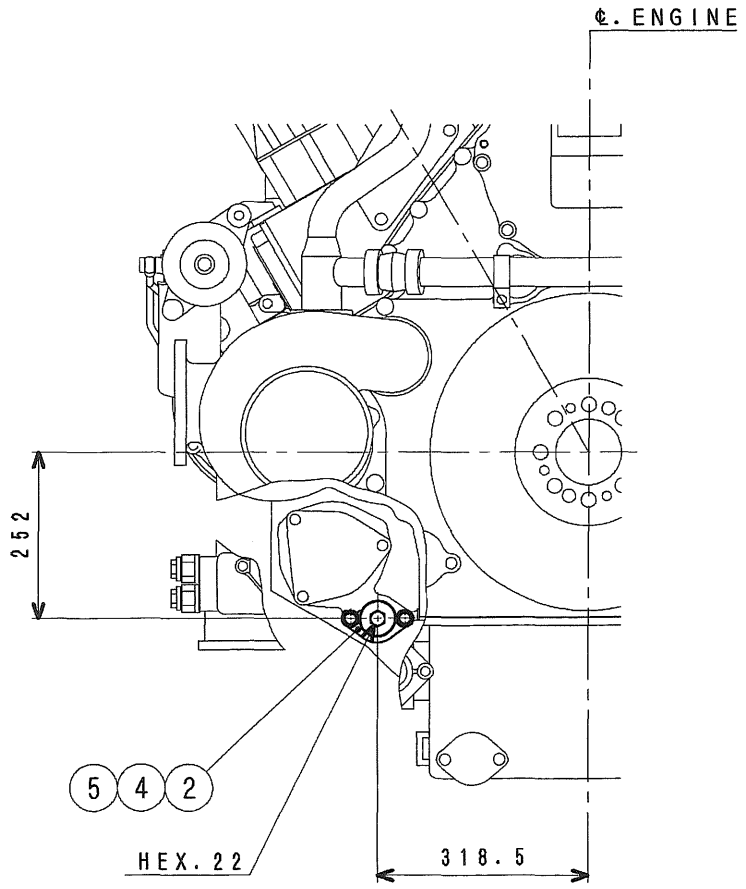
図面番号 DRAWING No. 37896-66001 ②

3 新図 ④ 旧引図 | サイズ A3 | ① 組立図 | 2 鋳鍛圧品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

旧引 汎特 2011 12.12

FULL-CAD





NOTE (1)THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

No.	PARTS NO.	PARTS NAME	Q'TY
5	F2500-12000	WASHER, PLAIN	2
4	F1805-12020	BOLT	2
3	37571-01500	PLATE, CAUTION	1
2	37571-10300	FLANGE	1
1	37771-00102	GEAR, TURNING	1

旧引
三菱
汎特
2011
12.12

FULL-CAD

MHI CONFIDENTIAL

CHG	EO-NO	DATE	CHK
1	4590-G661	'11. 3.29	斉藤

3rd ANGLE PROJECTION

尺度 SCALE :

認可 APPD 橋口

検図 CHK 竹谷 福田

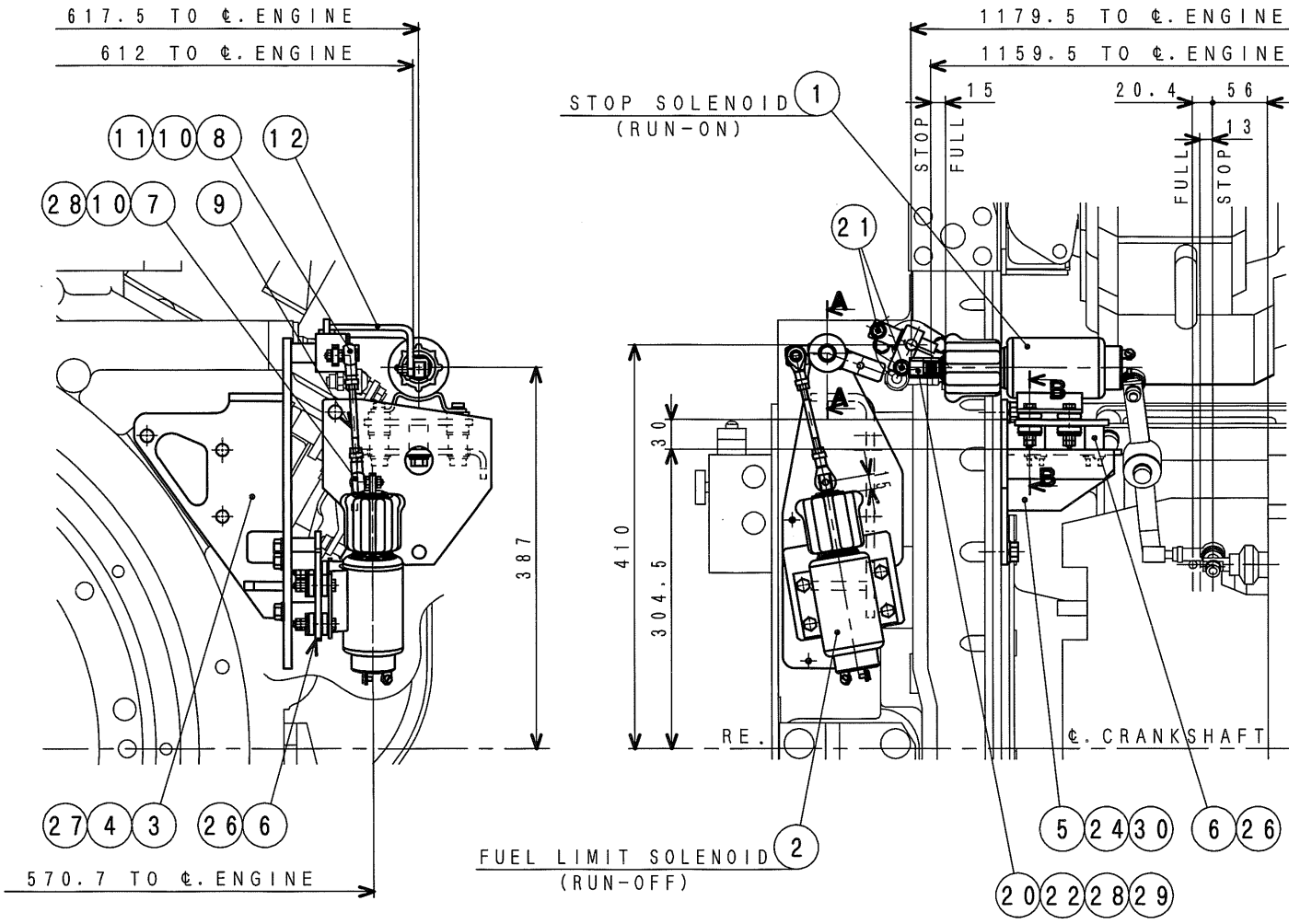
製図 DRN 谷戸 1997. 8. 8

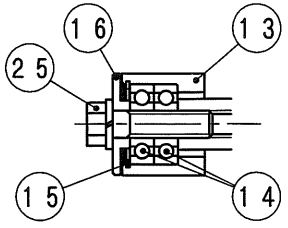
S16R
TURNING DEVICE

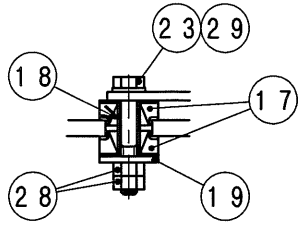
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

図面番号 DRAWING No. 37896-71001 ⚠1

3 新図 ④旧引図	サイズ A 3	① 組立図	2 鋼鉄圧延品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）







No.	PARTS NO.	PARTS NAME	Q'TY
30	F2515-12000	WASHER, SPRING	2
29	F2515-06000	WASHER, SPRING	9
28	F2300-06000	NUT	18
27	F1825-12025	BOLT	3
26	F1825-10025	BOLT	6
25	F1805-10040	BOLT	1
24	F1035-12030	BOLT	2
23	F1035-06040	BOLT	8
22	F1035-06020	BOLT	1
21	37587-00900	FOLLOWER	2
20	37787-03200	ADAPTER	1
19	08302-06000	WASHER	8
18	47500-36700	SPACER	8
17	47500-34100	RUBBER, CUSHION	16
16	32561-18300	PLATE, END	1
15	F3202-03000	RING, SNAP	1
14	F8007-06200	BEARING, BALL	2
13	37787-21202	LEVER, STOP RUN-OFF	1
12	37761-08401	LEVER, R.H., RACK CONT.	1
11	09413-00600	NUT, LOCK	1
10	05634-00610	NUT, SELF LOCKING	2
9	05902-06100	ROD	1
8	35A61-58401	BALL JOINT(M6-L)	1
7	35A61-58301	BALL JOINT(M6-R)	1
6	47520-25800	PLATE, SOLENOID	2
5	37787-03300	BRACKET, SOLENOID	1
4	37711-13200	PACKING	1
3	37787-01501	BRACKET, SOLENOID	1
2	04400-08901	SOLENOID(RUN-OFF)	1
1	04400-08801	SOLENOID(RUN-ON)	1

MHI CONFIDENTIAL

M/C

CHG	EO-NO	DATE	CHK
2	4590-H436	'12.11.30	谷戸
1	4590-F689	'09. 8.25	斉藤

3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
	竹福 谷田	谷戸
		1999. 3.16

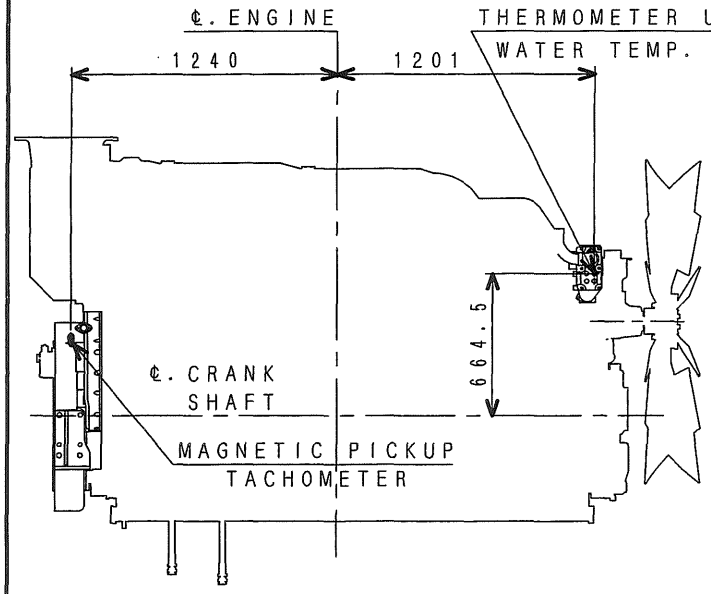
S16R-PTA
STOP & FUEL LIMIT SOLENOID

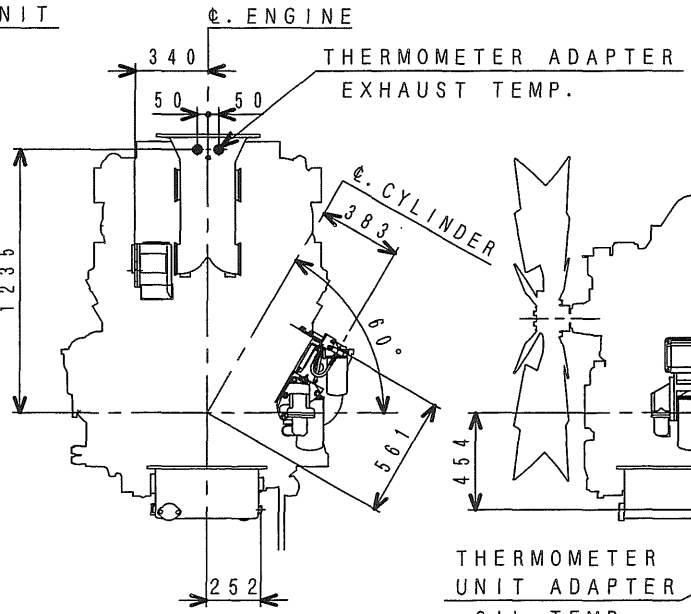
三菱重工業株式会社 汎用機・特車事業本部
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS. MITSUBISHI HEAVY INDUSTRIES, LTD.

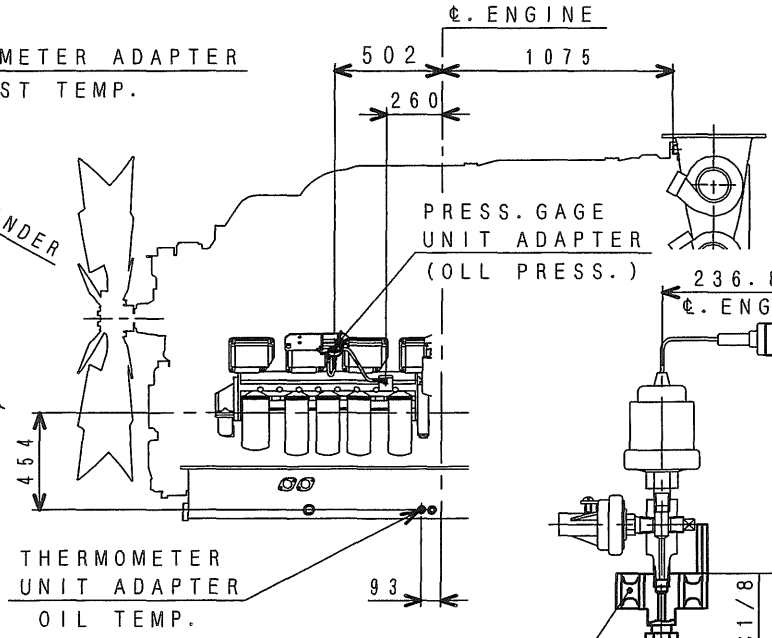
図面番号 DRAWING No. 37896-87503 ②

注記
（2）始動時，ラック制限値は両ソレノイド電源ON状態で，13mmである。
（1）本図は、ストップソレノイド（RUN－ON）及び、始動性容易化用ラックリミッターソレノイド（RUN－OFF）装着図である。

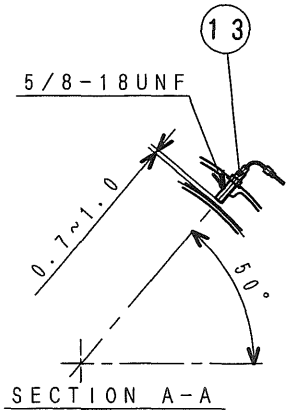
3 新図 ④旧引図	サイズ A3	① 組立図	2 溶接構造品 3 板金溶接品 4 組立品 5 切削品 6 その他（購入品）

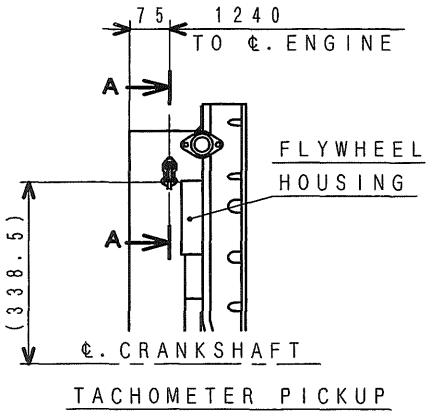




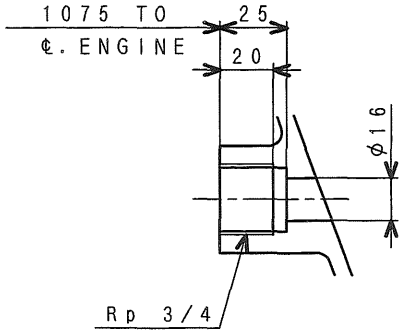


PRESS. GAGE UNIT ADAPTER
(OIL PRESS.)





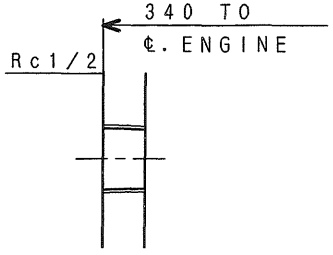
TACHOMETER PICKUP



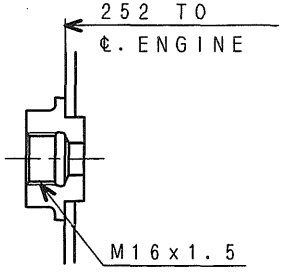
THERMOMETER ADAPTER
EXHAUST TEMP.

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME	Q'TY
☆	13	MH052-231	CONNECTOR	1
	12	04410-43410	PICKUP, MAGNETIC	1
	11	F2515-12000	WASHER, SPRING	2
	10	F2515-10000	WASHER, SPRING	2
	9	F1035-12070	BOLT	2
	8	F1035-10025	BOLT	2
	7	F4560-06300	ELBOW	1
	6	F4540-06300	CONNECTOR	2
	5	F2300-10000	NUT	2
	4	45951-04028	PIPE, FLEXIBLE	1
	3	45951-04024	PIPE, FLEXIBLE	1
	2	45644-47900	MOUNT	1
	1	47520-40701	BRACKET	1



THERMOMETER UNIT ADAPTER
WATER TEMP.



THERMOMETER UNIT ADAPTER
OIL TEMP.

MHI CONFIDENTIAL

M/C

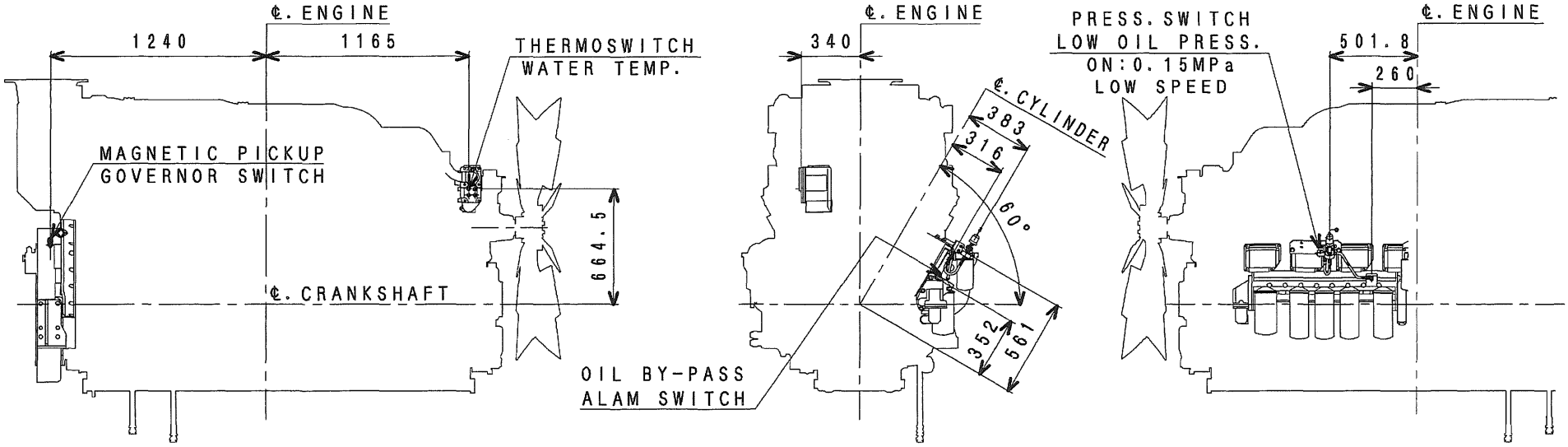
CHG	EO-NO	DATE	CHK

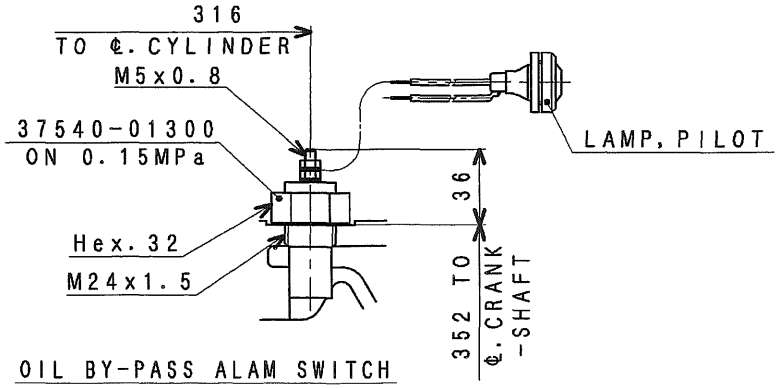
3rd ANGLE PROJECTION
尺度 SCALE :

認可 APPD	検図 CHK	製図 DRN
橋口	塚中 / 本村	谷戸
		2012.11.29

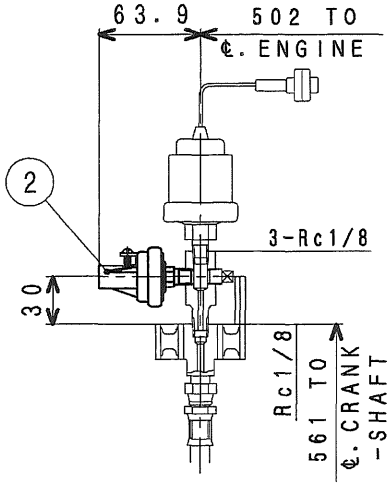
S16R
METER & SENSOR
三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.
図面番号 DRAWING No. 37896-90119

③新図 4旧引図	サイズ A3	①組立図	2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

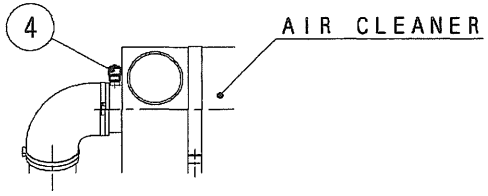




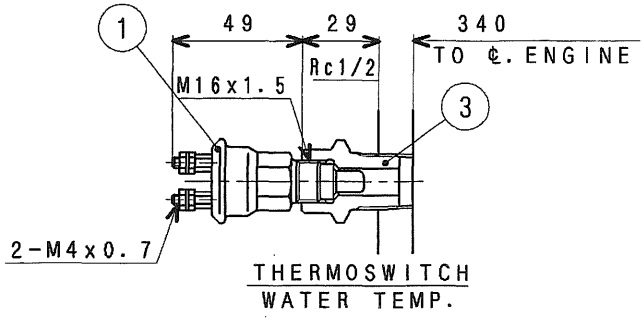
OIL BY-PASS ALAM SWITCH



PRESS. SWITCH
OIL PRESS.



AIR PRESS. INDICATOR



THERMOSWITCH
WATER TEMP.

NOTE (1) THE ☆ MARKED PARTS ARE LOOSE SUPPLY.

	No.	PARTS NO.	PARTS NAME		Q'TY
☆	4	47220-34401	INDICATOR	6.2kPa ON	4
	3	45600-42902	CONNECTOR		1
	2	04442-45400	PRESS. SWITCH	0.15MPa ON	1
	1	04442-34500	THERMO SWITCH	98℃ ON	1

CHG	EO-NO	DATE	CHK
3	4590-G664	'11. 3.29	斉藤
2	4590-7910	'01. 6.20	福田
1	4590-4698	'98.10.27	福田

3rd ANGLE PROJECTION
尺度 SCALE
:

認可 APPD	検図 CHK	製図 DRN
橋口	仁尾 福田	斉藤
		1998. 8.20

MHI CONFIDENTIAL

S16R

ALARM SWITCH

三菱重工業株式会社 汎用機・特車事業本部
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.

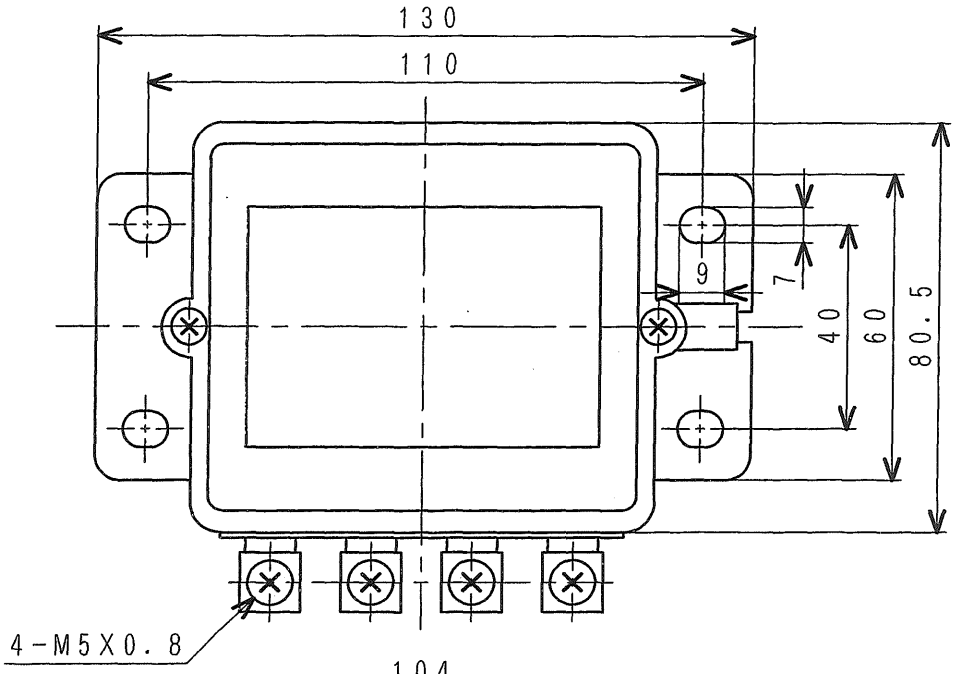
図面番号 DRAWING No. 37896-90207 ③

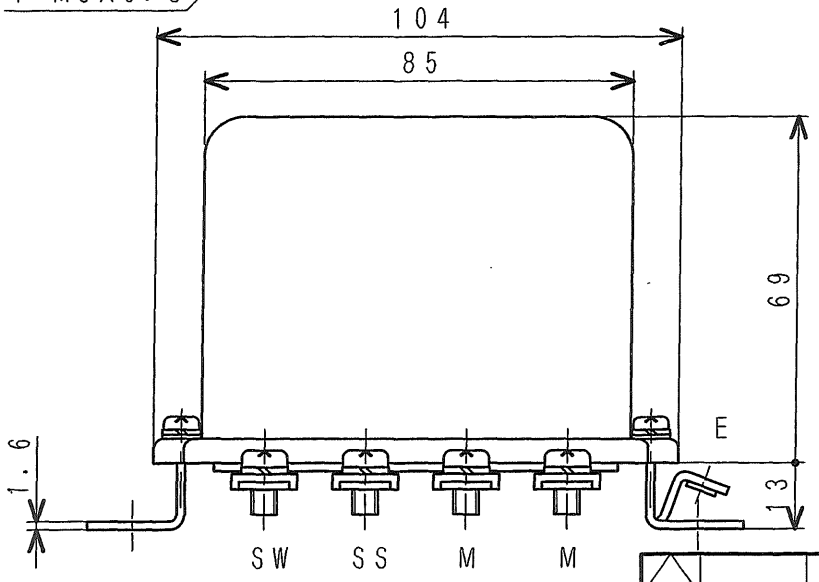
旧引 汎特 2011 12.12

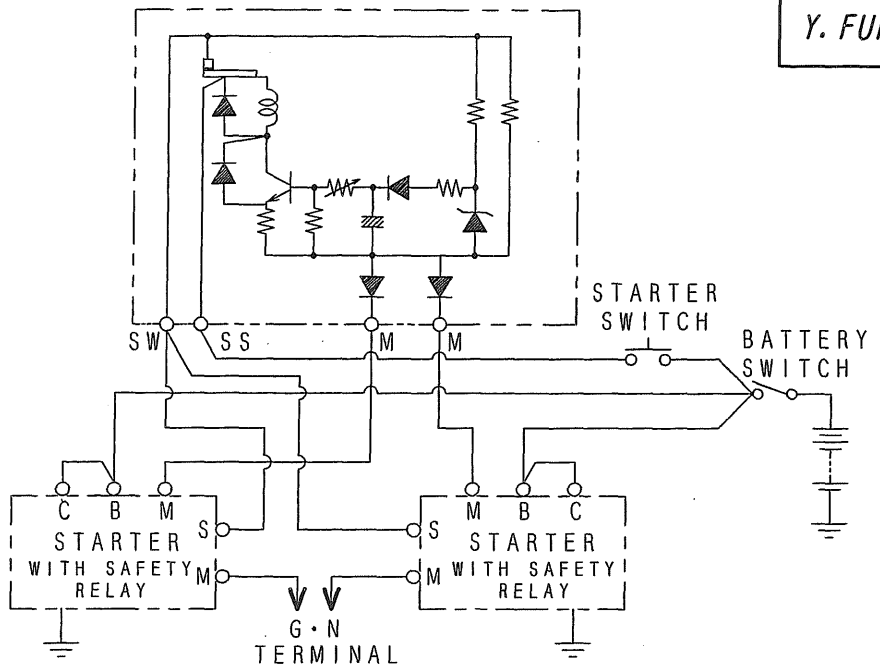
FULL-CAD

3 新図 ④旧引図 | サイズ A3 | ①組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

CHECKED BY
Y. FUKUDA







WIRING

仕様		
公称電圧		24V
定格		30秒
リレー動作仕様（25℃時）	動作電圧	8V~24V
	作動同期 (24V)	SS-SW間ON-OFF1サイクル
		2.5~3.0 sec
接点要量		6A
耐振性能		JIS D 1601 3類B種ニヨル(6.8G)
使用温度		-20 ~ +50℃
保護方式		防滴形

MHI CONFIDENTIAL

REV.	DATE
2	'08.11.27
1	'93. 2.16

SAFETY RELAY

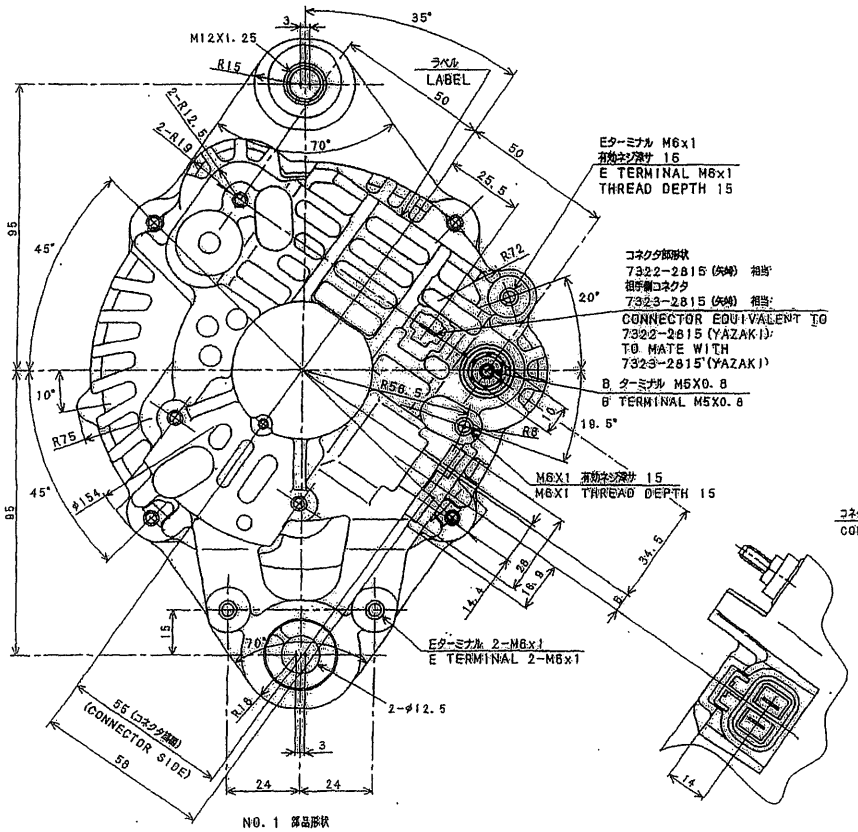
PART NO. 04322-40100

DWG. NO. S10-0150

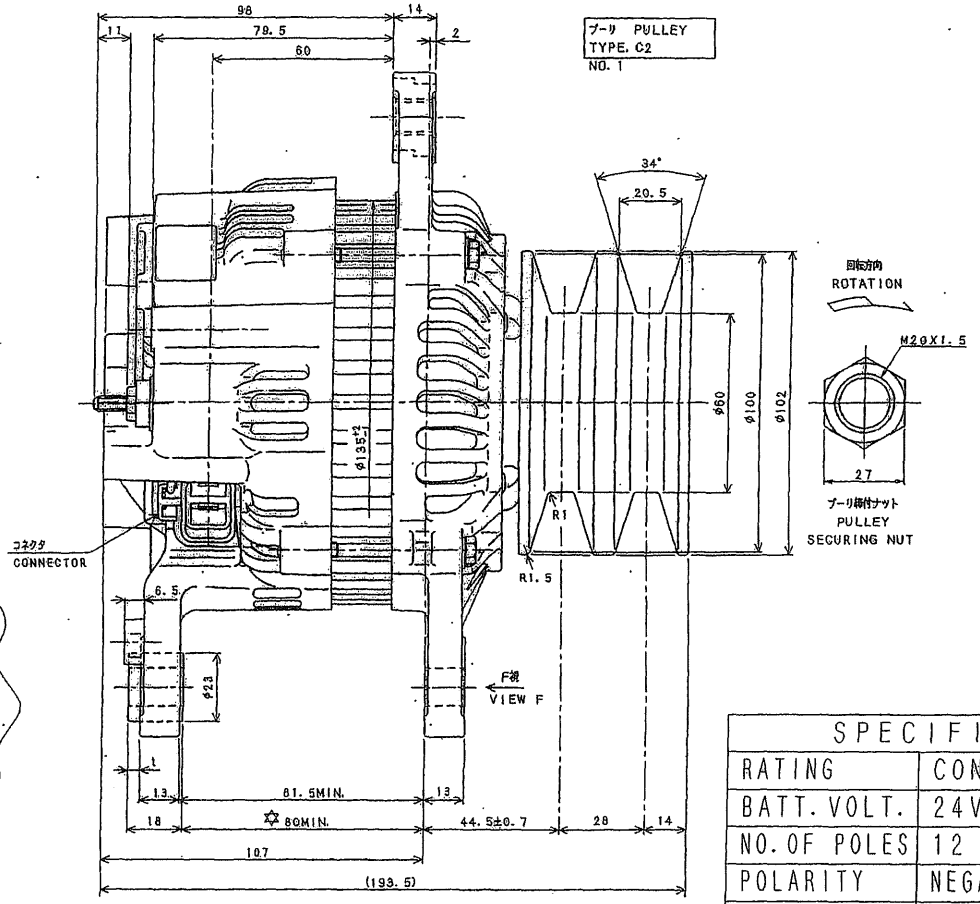
MITSUBISHI HEAVY INDUSTRIES, LTD.

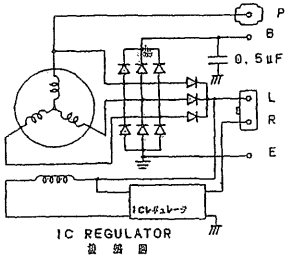
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
K. YATO



NO. 1 部品形状
REAR VIEW





IC REGULATOR
回路図
CIRCUIT DIAGRAM
TYPE. P

SPECIFICATION	
RATING	CONTINUOUS
BATT. VOLT.	24V
NO. OF POLES	12
POLARITY	NEGATIVE GROUNG
REG. SYSTEM	IC-REG. BUILT-IN
REG. SET VOLT.	28.5±0.5V(AT 5000r/min WITHLESS THAN 5A BATT LOADMEASURED ON L-E)

MHI CONFIDENTIAL

REV.	DATE

ALTERNATOR, W/O EXCIT

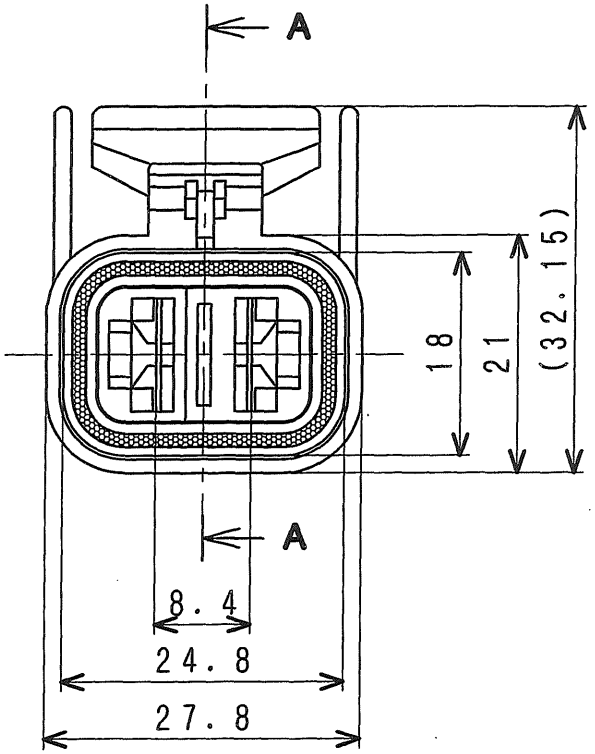
PART NO. 04343-38000

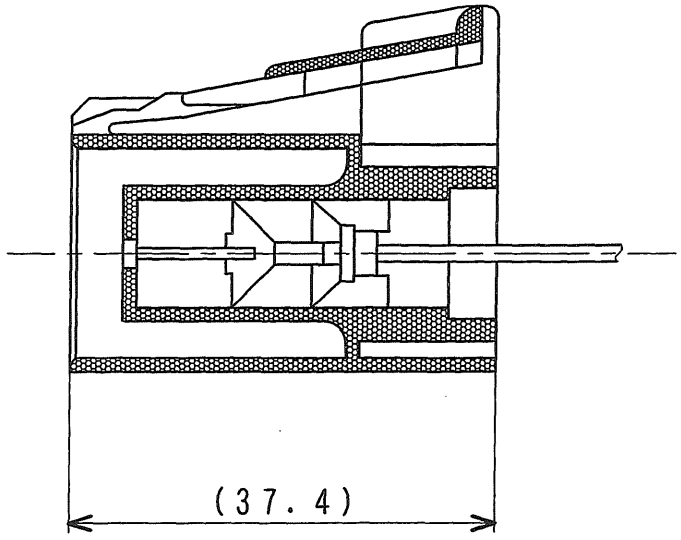
DWG. NO. S10-0540

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA





SECTION A-A

本部品は、矢崎品番7323-6228-30相当品である。

MHI CONFIDENTIAL

REV.	DATE

CONNECTOR

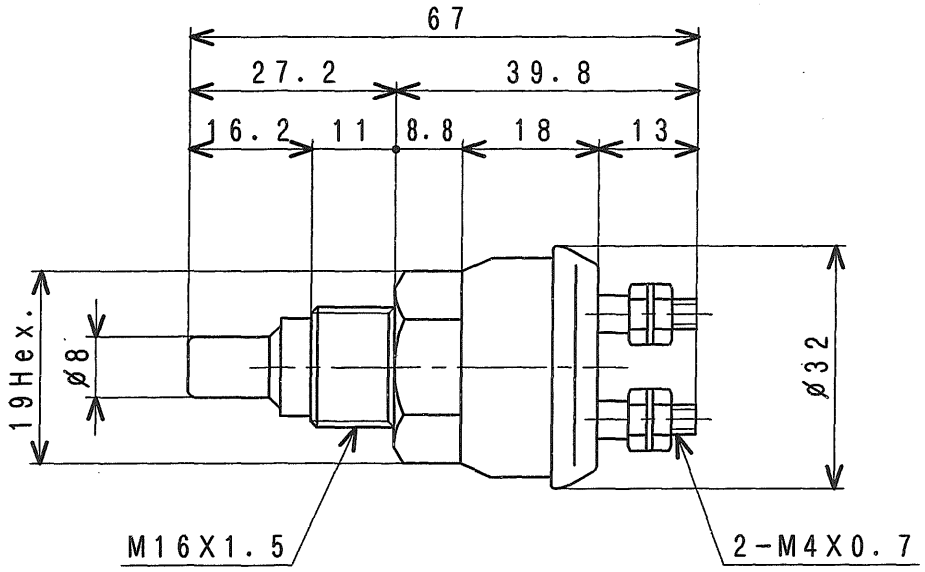
PART NO. 32B90-00300

DWG. NO. S10-0550

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
NAKAMURA



CONNECTING TYPE	PARTS NO.	SET TEMP. (℃)		CONTACTOR CAPACITY	WEIGHT
		ON	OFF		
NO(A-CONTACT)	04442-34300	92±2	85±2	DC24V 0.05A~3A DC100V 0.05A~0.4A AC100V 0.05A~1A	60g
NO(A-CONTACT)	04442-34400	95±2	88±2		
NO(A-CONTACT)	04442-34500	98±2	91±2		
NO(A-CONTACT)	04442-34600	110±2	103±2		
NO(A-CONTACT)	04442-34700	105±2	98±2		
NO(A-CONTACT)	04442-34800	101±2	94±2		
NO(A-CONTACT)	04442-34900	88±2	81±2		
NO(A-CONTACT)	04442-38700	115±2	108±2		
NO(A-CONTACT)	37547-04100	101^{0}_{-2}	94±2		

MHI CONFIDENTIAL

REV.	DATE
6	'00.4.26
8	'08.6.5
7	'06.3.17

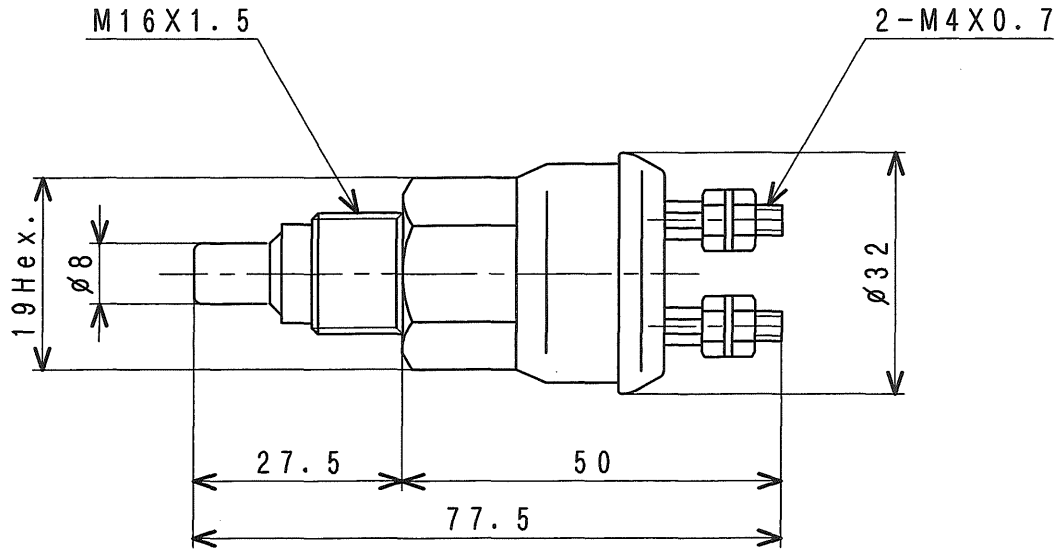
THERMO SWITCH

DWG. NO. S11-0551

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
中 村



SPECIFICATION				
CONNECTING TYPE	SET TEMP. (℃)		CONTACTOR CAPACITY	WEIGHT
	ON	OFF		
NC(B-CONTACT)	35±2	42±2	DC24V 3A, AC100V 1A DC100V 0.05A	60g

注記　本部品は、04442-30200 THERMO SWITCHに対して
サーモエレメント内のスリーブ材質変更　NBR→フッ素

MHI CONFIDENTIAL

REV.	DATE

THERMOSWITCH

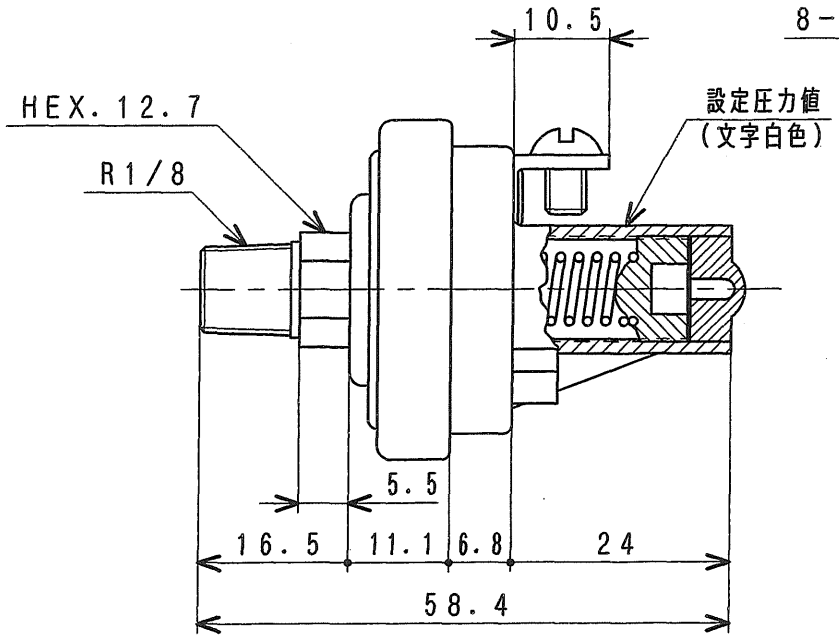
PART NO. 04442-30210

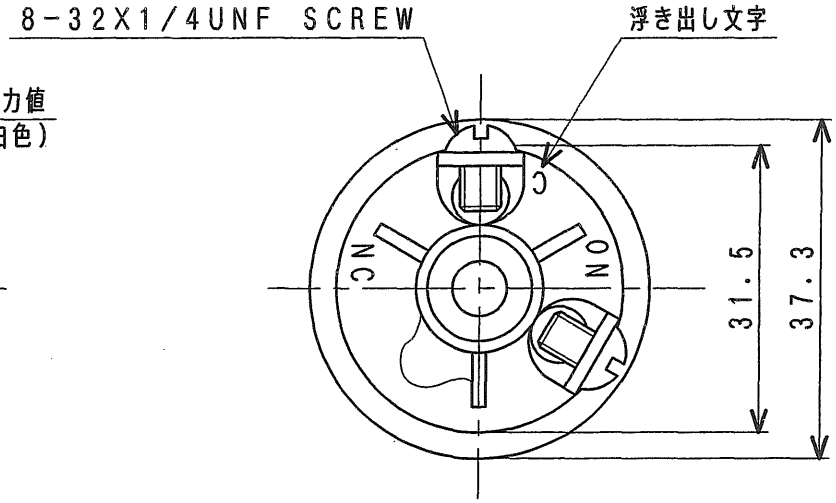
DWG. NO. S11-0781

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

CHECKED BY
Y. FUKUDA





NO	04442-46500	0.15	±0.015
NO	04442-46400	0.10	±0.01
NO	04442-46300	0.05	±0.005
NC	04442-46100	6.2KPa	±0.62KPa
NC	04442-45900	0.40	±0.04
NC	04442-45800	0.35	±0.035
NC	04442-45700	0.30	±0.03
NC	04442-45600	0.25	±0.025
NC	04442-45500	0.22	±0.022
NC	04442-45400	0.15	±0.015
NC	04442-45300	0.10	±0.01
NC	04442-45200	0.05	±0.005
NC	04442-45100	0.03	±0.003
接点形式	PARTS NO.	ON	ALLOWANCE
		SET PRESS.MPa	

5. ON-OFF差 : 5%以内
4. 接点形式 : (NO) (NC)
3. 使用温度範囲 : -40.0℃~+120.0℃
2. 定格 : 6VDC-15AMP, 12VDC-8AMP, 24VDC-4AMP,
120VAC-1AMP, 240VAC-0.5AMP
最小電流値:0.05A

仕様 1. 最高許容圧力 : 1.05MPa(設定圧:0.007~0.17MPa)
1.75MPa(設定圧:0.18~1.05MPa)

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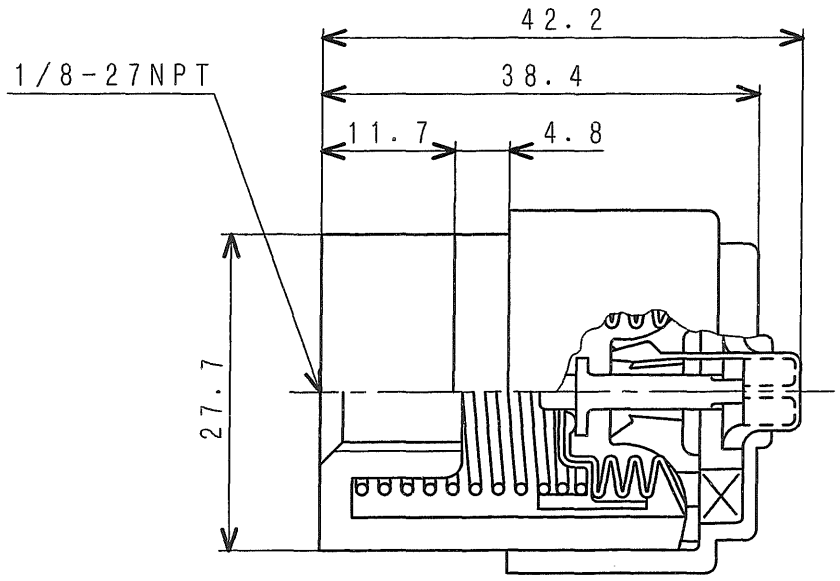
REV.	DATE
2	'08.6.5
1	'06.3.17

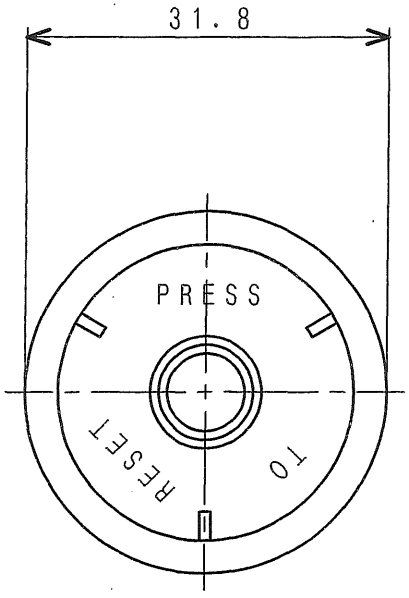
SWITCH, PRESS

DWG. NO. S11-0796

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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PARTS NO.	RESTRICTION (mmH_2O)
47220-30701	762±58
47220-34301	508±48
47220-34401	635±58

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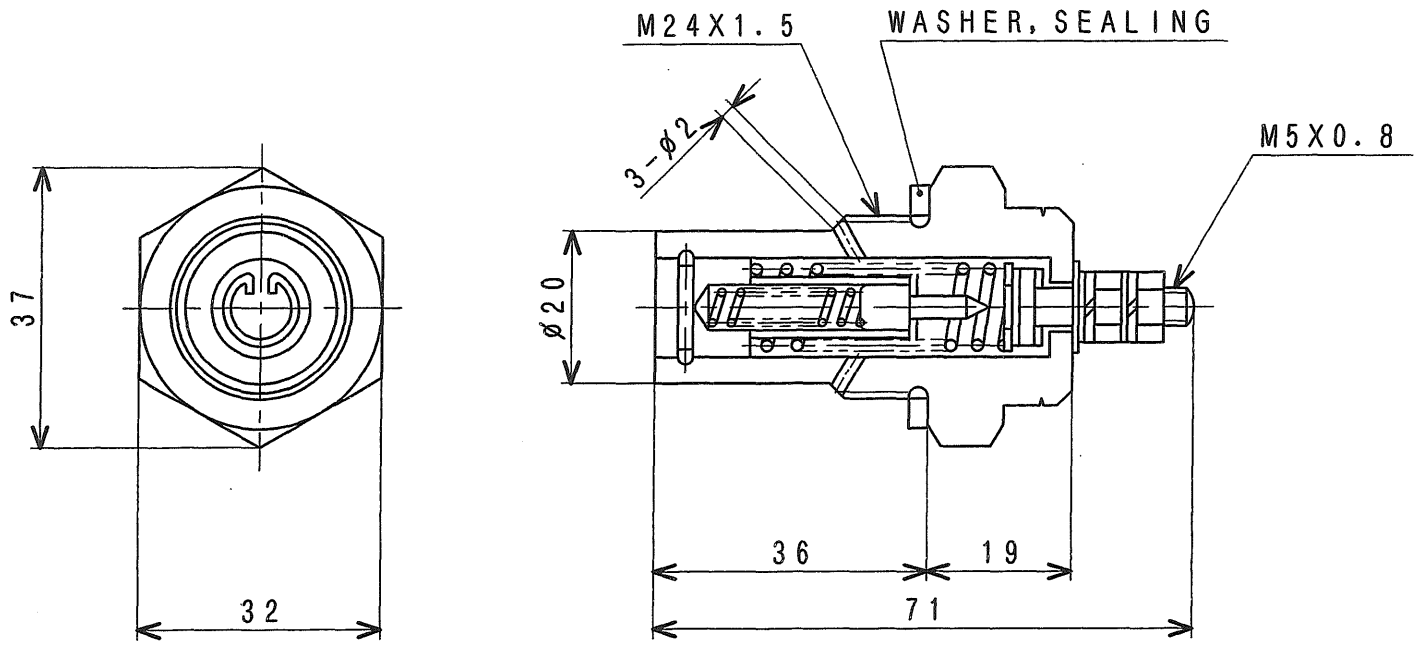
REV.	DATE
1	'93 2/18

INDICATOR

DWG. NO. S11-0920

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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中村



SET PRESS. 0.15MPa

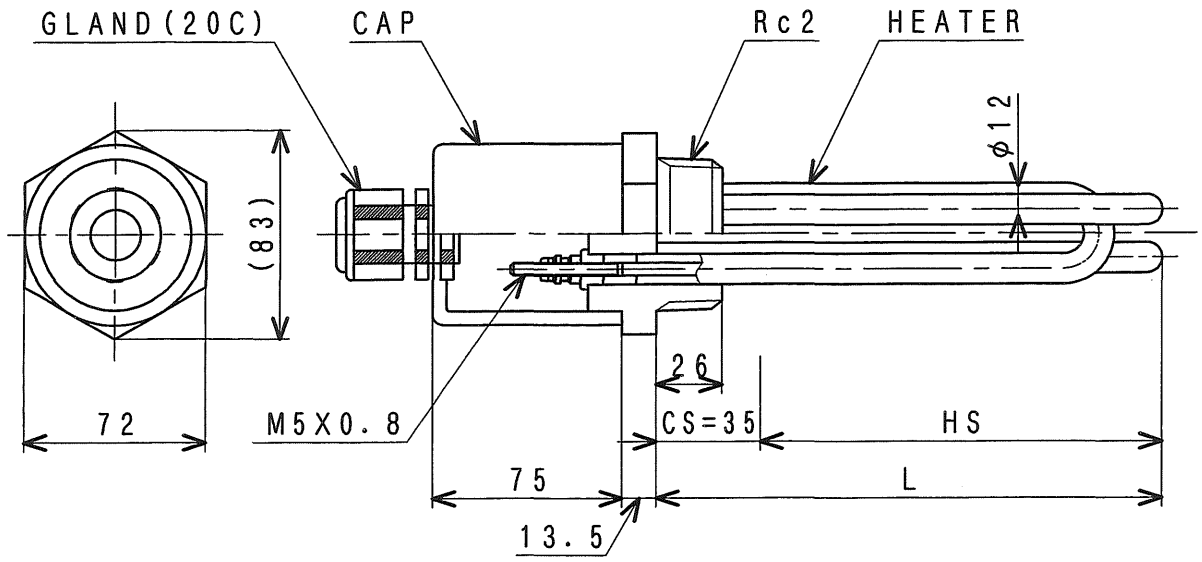
MHI CONFIDENTIAL

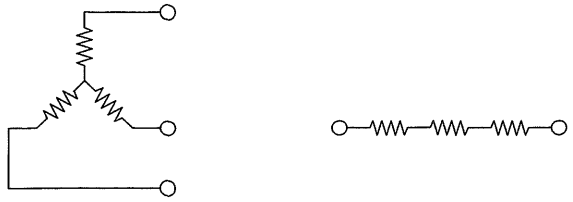
REV.	DATE
1	'08.6.6

ALARM, OIL FILTER
PART NO. 37540-01300

DWG. NO. S11-1370
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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3相　　1相

CONNECTION

PARTS NO.	VOLTAGE	CAPASITY	L LENGTH	HS LENGTH
04393-34820	3φ 480V	2kW	200	165
04393-34420	3φ 440V			
04393-33820	3φ 380V			
04393-32220	3φ 220V			
04393-34810	3φ 480V	1kW	125	90
04393-34410	3φ 440V			
04393-33810	3φ 380V			
04393-32210	3φ 220V			
04393-14820	1φ 480V	2kW	200	165
04393-14420	1φ 440V			
04393-13820	1φ 380V			
04393-12420	1φ 240V			
04393-12220	1φ 220V			
04393-11220	1φ 120V			
04393-11120	1φ 110V			
04393-14810	1φ 480V	1kW	125	90
04393-14410	1φ 440V			
04393-13810	1φ 380V			
04393-12410	1φ 240V			
04393-12210	1φ 220V			
04393-11210	1φ 120V			
04393-11110	1φ 110V			

仕様　1．取付姿勢　：キャップを上側とした取付は不可
　　2．加熱対象物：清水
　　3．使用温度　：90℃連続

REV.	DATE
2	'09.12. 8
1	'01. 2.21

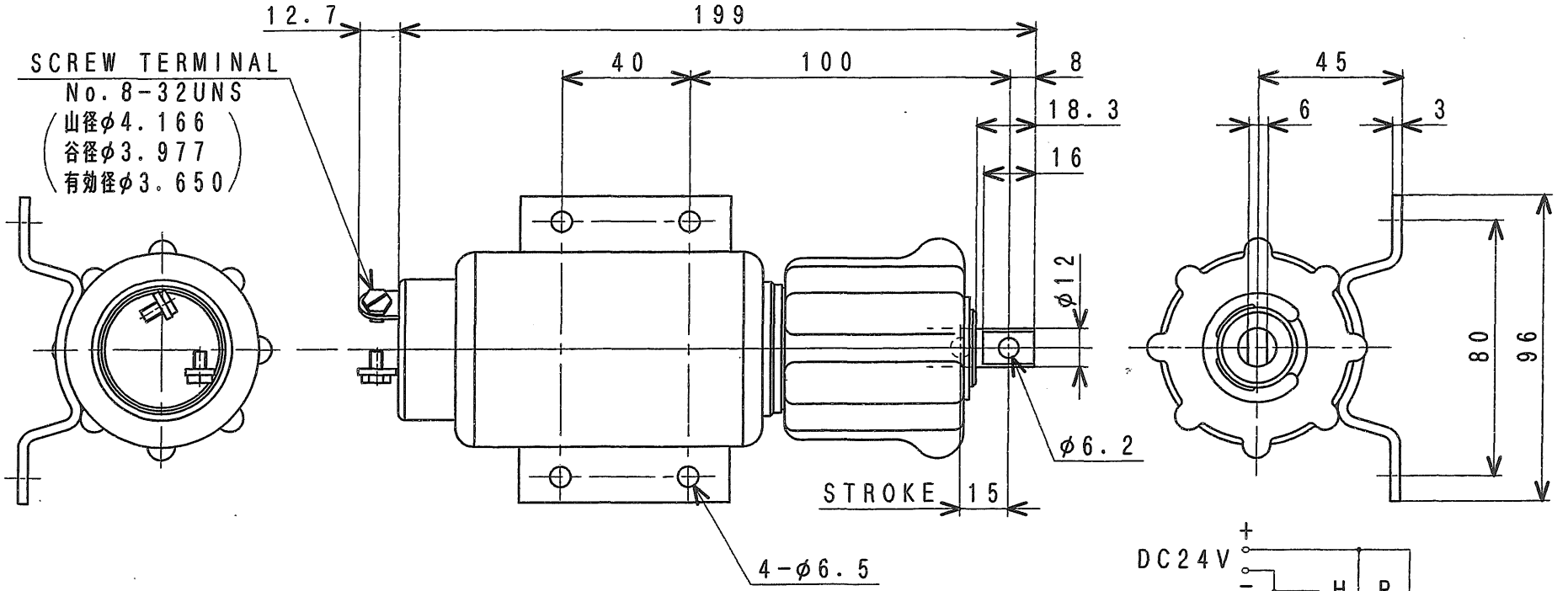
WATER HEATER

DWG. NO. S12-0014

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GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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注記　本部品は04400-08800及び04400-08900に対し下記が異なる。

1. 保持コイルリードワイヤー取出部に太いサイズの皮膜付リードワイヤーを溶接接続したものである。
2. 吸引、保持コイル切換えスイッチの固定コンタクトの曲げを平に変更したものである。

PARTS NO.	RETURN SPRING PRESS.
04400-08901	0.2 MPa
04400-08801	1.0 MPa

SPECIFICATION	
VOLTAGE	DC24V
CURRENT	PULL 30.7A, HOLD 0.58A
RATED TIME	CONTINUOUS

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REV.	DATE

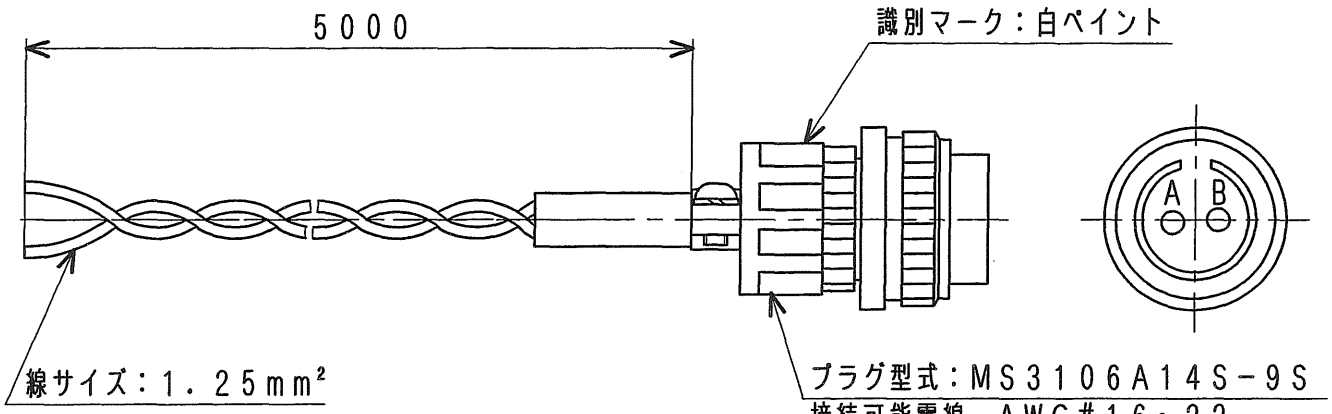
SOLENOID

DWG. NO. S13-0282

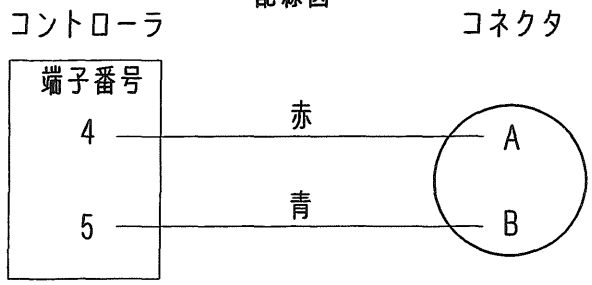
MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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配線図



備考　使用先：コントローラ～アクチュエータ間の配線用部品として
使用するツイストペアケーブルである。

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REV.	DATE

CONNECTOR

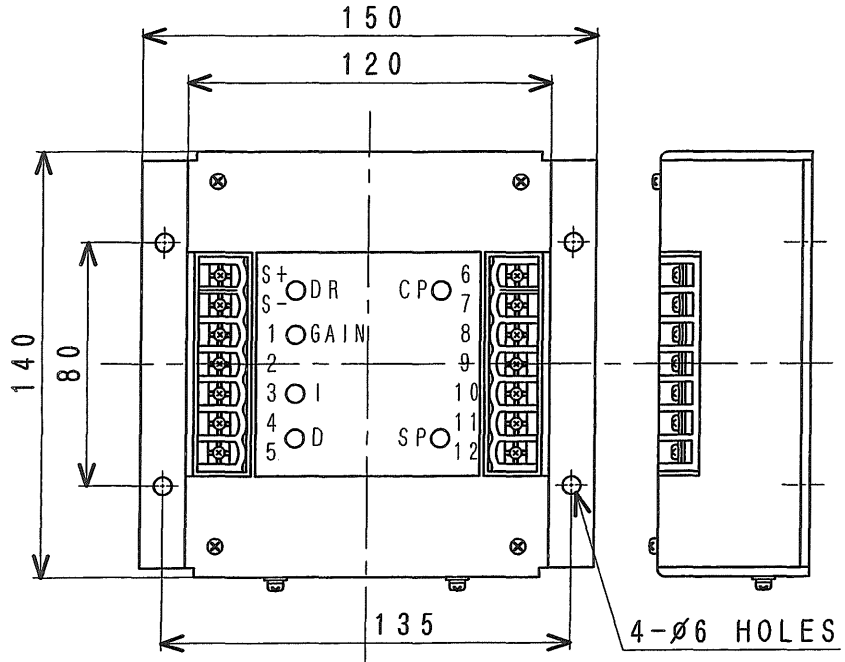
PART NO. 04410-32902

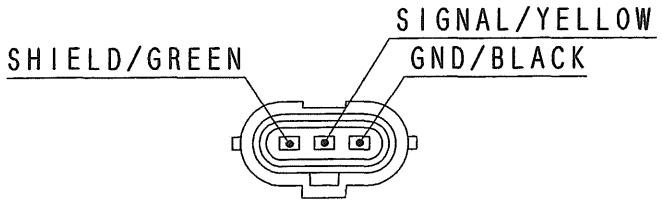
DWG. NO. S13-1022

MITSUBISHI HEAVY INDUSTRIES, LTD.

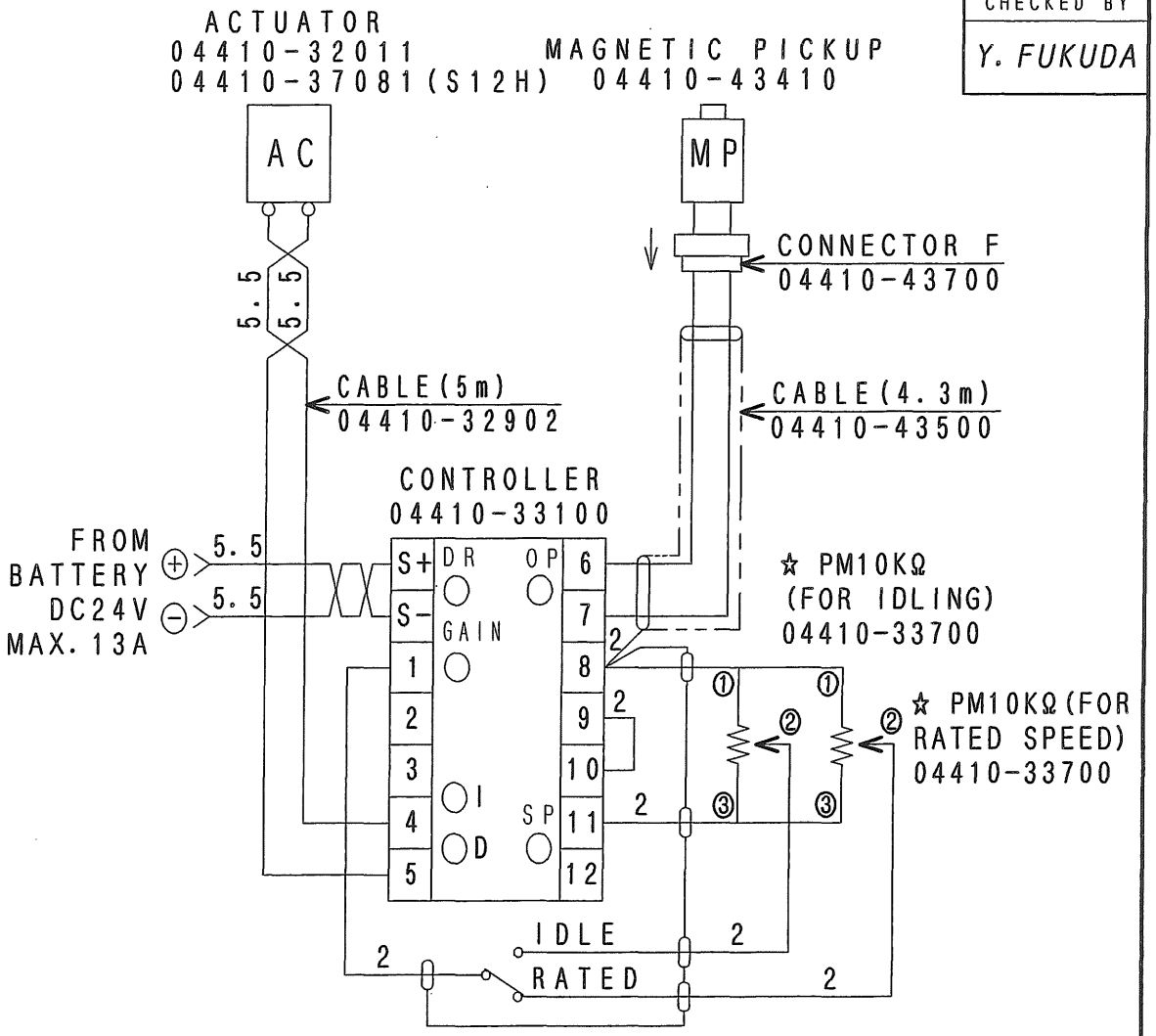
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CONNECTOR F
04410-43700



WIRING

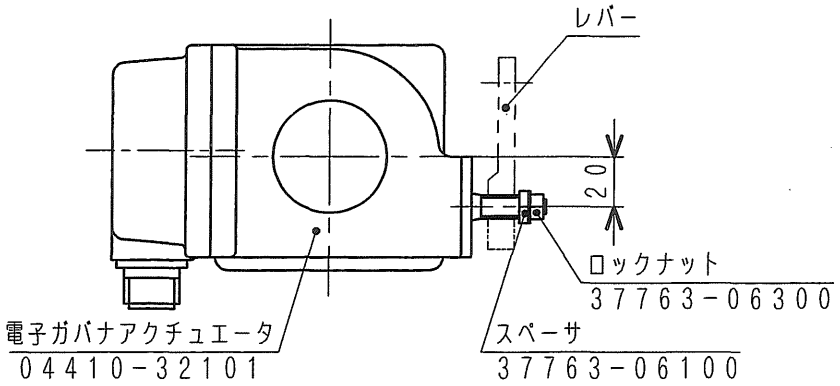
MHI CONFIDENTIAL

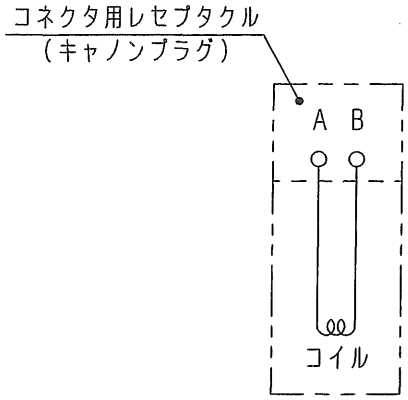
REV.	DATE
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1	'01.6.29

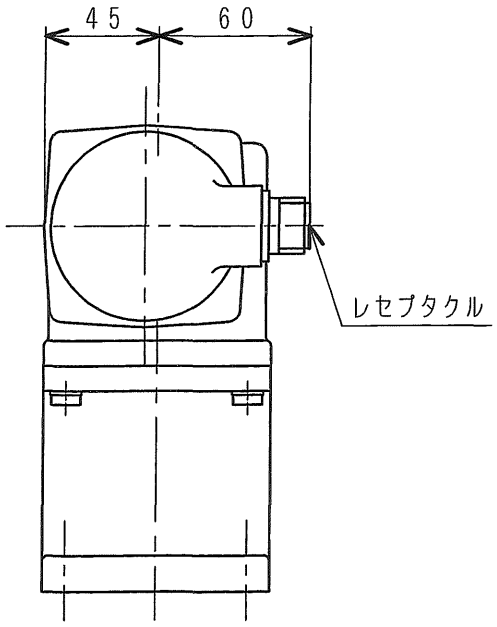
CONTROLLER SPEED
PART NO. 04410-33100

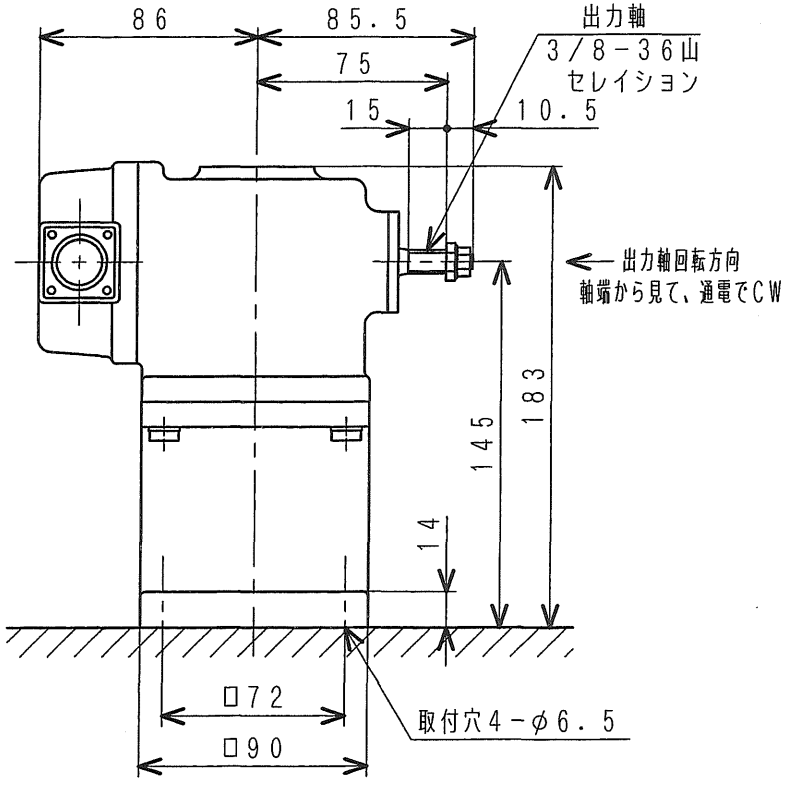
DWG. NO. S13-1042
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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仕　様

回転角度	：MAX40°
トルク	：0.17kgf・m　起動時
	起動時常温8Aにて
電　源	：DC24V　パルス
起動最低電圧	：DC16V　50%ed以下
電　流	：MAX13A
常用電流	：軽負荷制御時0.5A～2A
周囲温度	：－30℃～100℃
耐　震	：25G　JIS　D　1601
重　量	：4.7kgf

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（2）本部品は、部番04410－32010に対し出力軸の材料を変更したものである。

注記（1）本部品は、2線式アクチュエータである。

REV.	DATE

ACTUATOR/SG4017BR

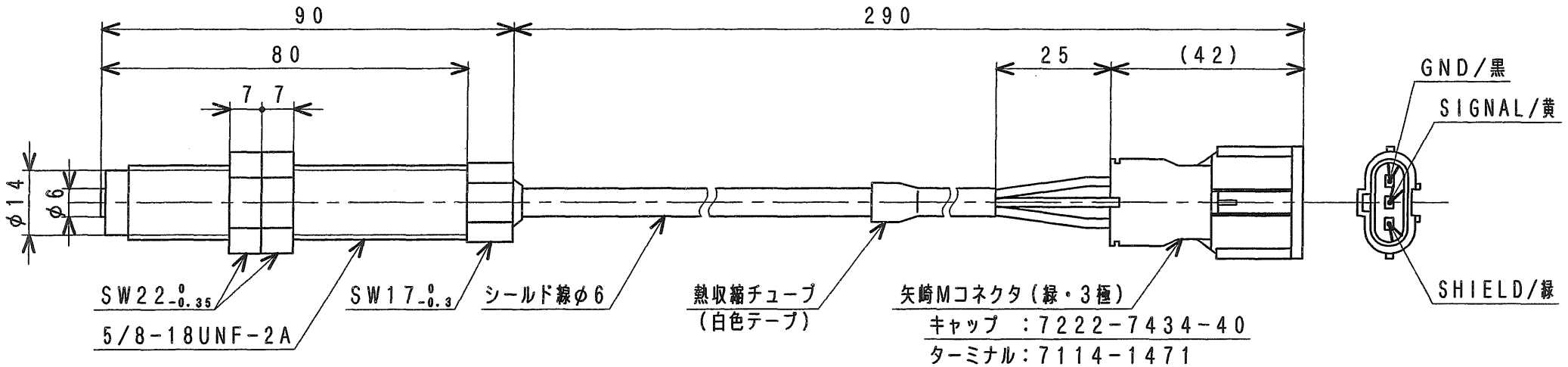
PART NO. 04410-32011

DWG. NO. S13-1761

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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仕 様

1．電機的特性

出力電圧 ：図1．測定条件にて4．0Vp－p以上（at700Hz）
7．0Vp－p以上（at6700Hz）

直流抵抗 ：1．3kΩ～1．6kΩ（at＋25℃）

絶縁抵抗 ：1MΩ以上 atDC500V （コネクタ端子－ハウジング間）

耐電圧 ：50／60Hz AC500V 1分間（コネクタ端子－ハウジング間）

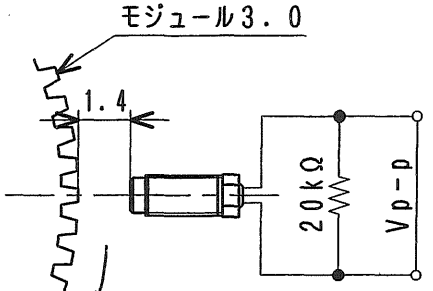
2．機械的特性

コネクタ引き抜け力：5N以上

締付け破壊トルク ：5J以上

3．使用温度範囲

－40℃～＋120℃



歯車回転数 700Hz～6700Hz

図1．出力条件

注 記

1．本部品は日本エアパックス（株）殿製である。

2．本部品は04410－43400に対し、コイル保護ラバー（シリコン）を厚塗り品としたものである。
また、識別用として熱収縮チューブに白色テープを追加し、Mコネクタの色を緑←灰にしたものである。

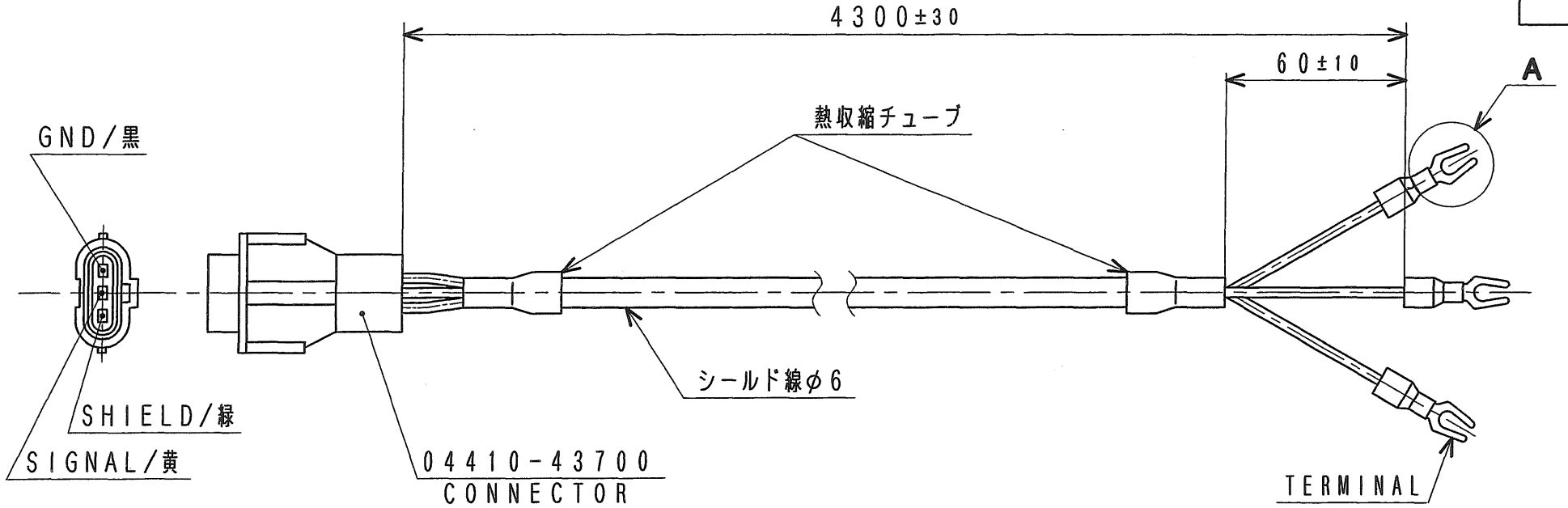
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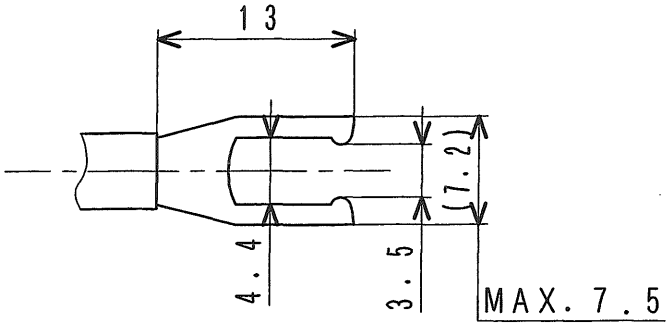
REV.	DATE

PICKUP, MAGNETIC
PART NO. 04410-43410

DWG. NO. S13-2011
MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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DETAIL A

注記 (1) リード線は，シールド線（φ6）を使用。

(2) 配線色は，黒X1，黄X1（各々メスピンに接続），緑X1（シールドに接続）である。

(3) ターミナル形状は、A図と同等（M3ネジ用）である。

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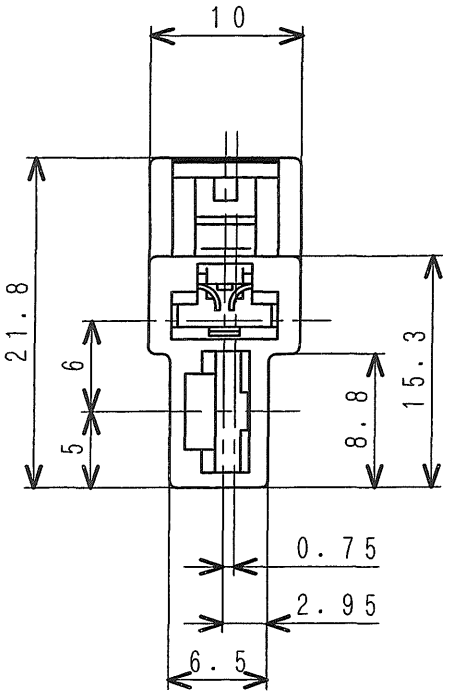
REV.	DATE

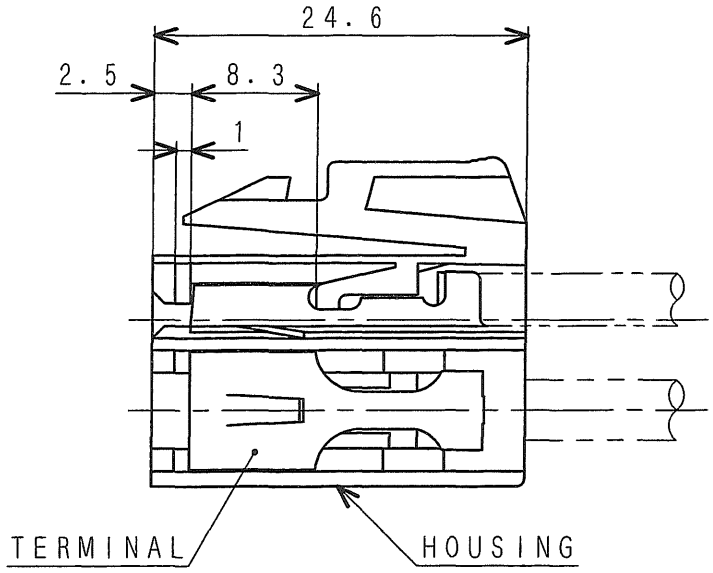
CABLE, PICKUP
PART NO. 04410-43500

DWG. NO. S13-2020

MITSUBISHI HEAVY INDUSTRIES, LTD.
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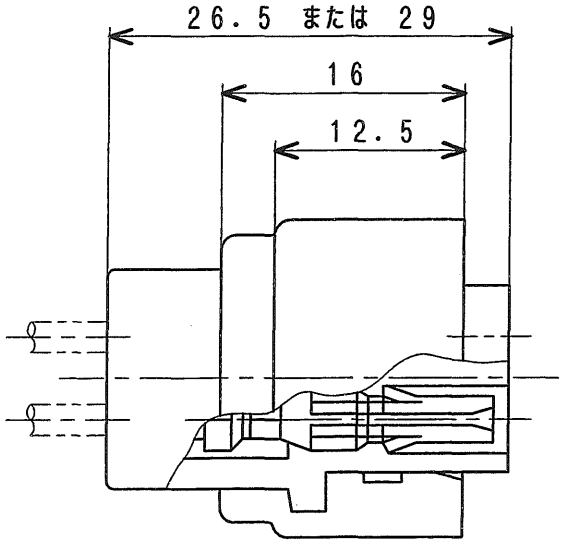
REV.	DATE
1	'93 9/10

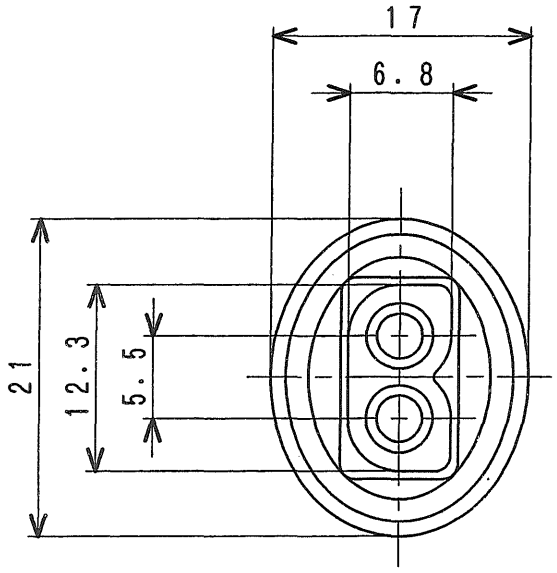
CONNECTOR, 2POLES
PART NO. F8665-02100

DWG. NO. S14-0320

MITSUBISHI HEAVY INDUSTRIES, LTD.
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REV.	DATE
2	'04.3.12
1	'93.8.4

CONNECTOR

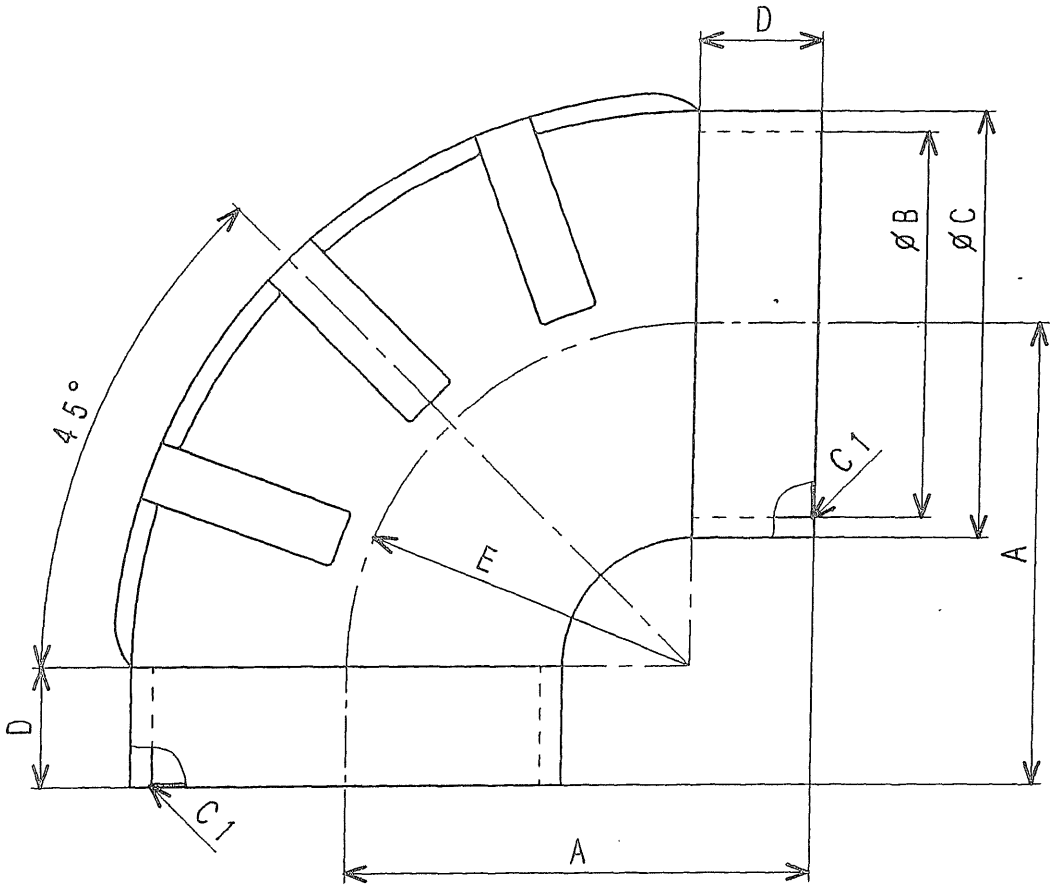
PART NO. MH052231

DWG. NO. S14-0330

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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PARTS NO.	TYPE / MEASURE	A	B	C	D	E
47220-47600	ø160	145	160	176	40	100
47220-32600	7" (ø177.8)	184.2	177.8	194.6	50.8	133.4
47220-30400	6" (ø152.4)	177.8	152.4	166.4	50.8	127
47220-12100	5" (ø127.0)	152.4	127	141	40	112.4

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REV.	DATE

HOSE, RUBBER

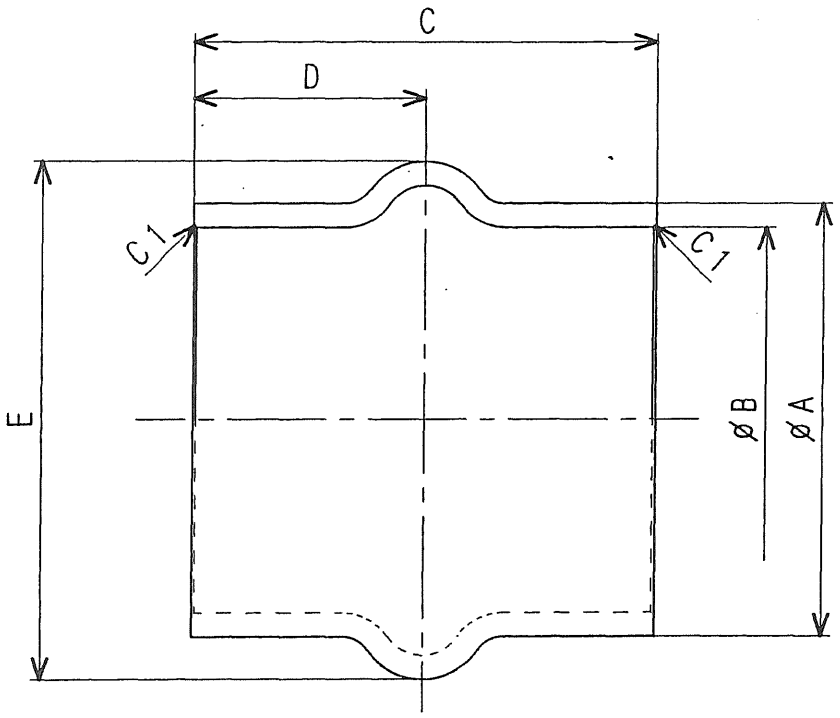
DWG. NO. S35-0701

MITSUBISHI HEAVY INDUSTRIES, LTD.

GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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PARTS NO.	TYPE / MEASURE	A	B	C	D	E
47220-47300	10" (ø254.0)	266.7	254	152.4	76.2	300
47220-31600	7" (ø177.8)	194	178	178	89	222
47220-30500	6" (ø152.4)	168.4	152.4	178	89	196.4
47220-13200	5" (ø127.0)	143	127	152.4	76.2	171

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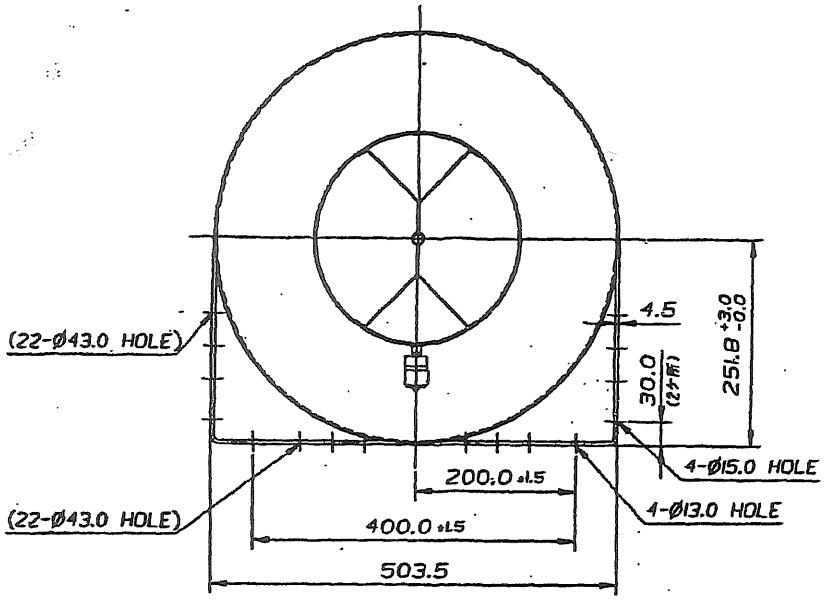
REV.	DATE

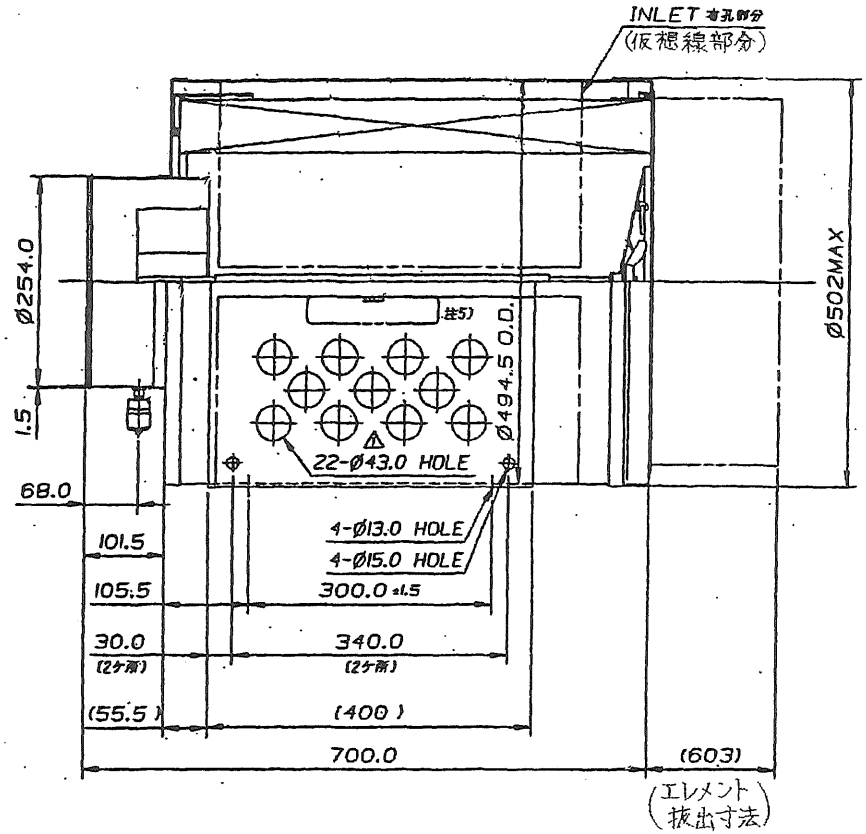
HOSE, RUBBER

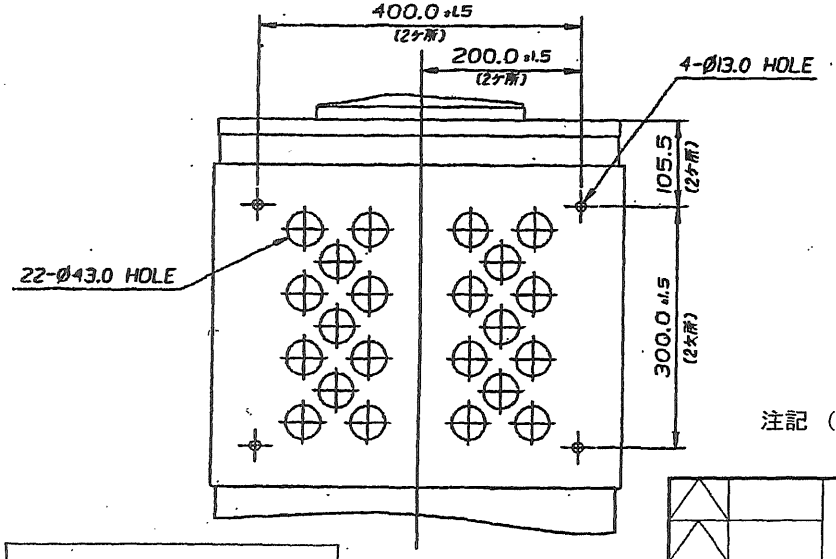
DWG. NO. S35-0711

MITSUBISHI HEAVY INDUSTRIES, LTD.
GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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注記 (1)部番:47220-47702に対し、塗装を黒色にしたものである。

型式：EGB20
重量：約37.5kg

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REV.	DATE

AIR CLEANER

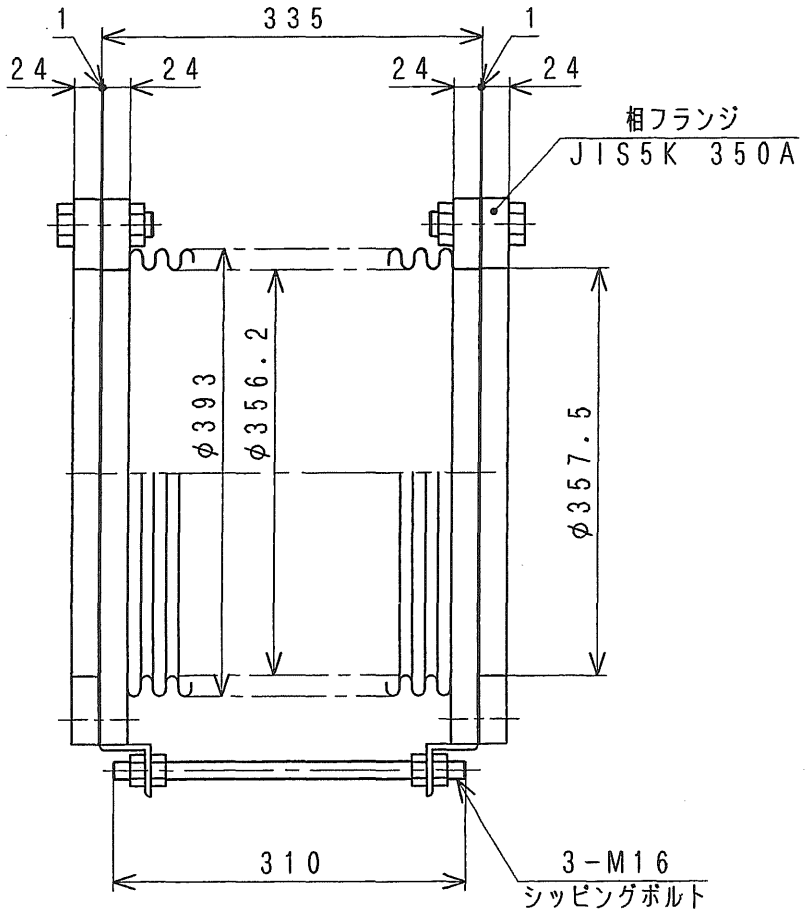
PART NO. 47220-47702

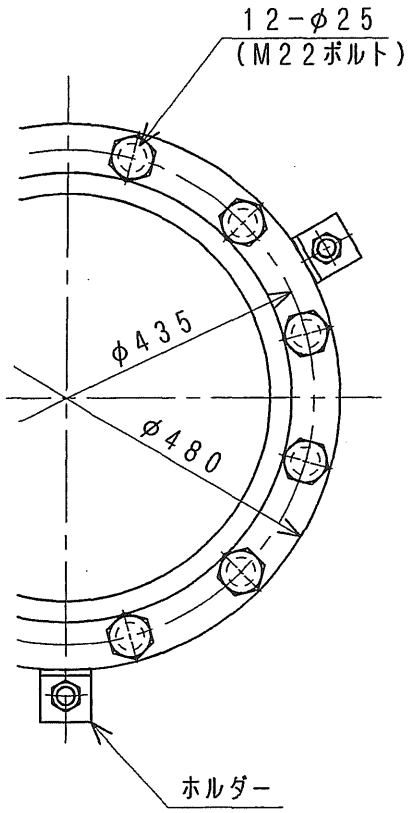
DWG. NO. S35-1032

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GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

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注記　(1)本部品は、相フランジ及びボルト、ナット付である。

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REV.	DATE

PIPE, FLEXIBLE

PART NO. 47920-12400

DWG. NO. S37-1090

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